FINAL REPORT

ON THE

SETTLEMENT OF WAZIRABAD, GUJRAN-WALA AND SHARAQPUR TAHSILS

IN THE

GUJRANWALA DISTRICT, 1909–1913.

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Table of contents.

Par .		Subject.				Page
	CHAPTE	R I.— Des	Criptive.			_
,	1	-				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
1 2	General description Drainage	•••	•••	•••	1	
$\bar{3}$	Assessment circles, Gujranwala s	and Wazira	abad	•••	}	1
4	Assessment circles, Sharaqpur	•••	•••	•••	1	
5 6	Soils and vegetation Rainfall	•••	•••	•••		}
7	The Upper Chenab Canal	***	•••	•••	1	-
8	The Raya and Nokhar Branches		•••	•••		
9	System of canal irrigation	***	•••	***	•••	
10 11	Communications Towns	•••	•••	•••	•••	
**	Towns	•••	•••	•••	*	
	CHAPTER	II.—Fisca	L History	.		
12	Fiscal history before British rule	- Green		***	 .	
13	Summary settlement		22x	•••	•••	
14 15	The regular settlement The revised settlement			***	•••	
16	The last settlement		88	•••	**	
17	Its working		<i>9</i>	•••]	
18	Taqavi advances			•••	••• }	
19	Demand for 1911-12	141 M	7	***	•••	
	8		77			
	CHAPTER II	II.—Reco	nd-of-Rig	HTS.		
20	Revision of records and-killaba	ndi	{<	•••		
21	Progress of ki/lahandi	•••	•••	***	•••	
22	Rectangular survey	•••	•••	•••	•••	
23 24	Killabandi, field work Method of killabandi repartition	•••	***	***	***	
25	Old field numbers	•••	•••	***	•••	•
26	Kila embankments	•••	•••	•••	•••	,
27 28	Village boundaries	•••	***	•••	•••	
29	Allotment of killus Qanungo's final attestation	•••	•••	•••		
30	Naib Tahsildars' tinal attestation	•••	•••	***		
81	Killabandi mutation	•••	•••	•••	•••	
32 33	Tahsildars' final attestation Killabandi in the Chenab circle	•••	•••	•••	•••	
34	Re-survey in Wazirabad Bangar	non-canal	estates	•••	-••	
35	Stone tri-junctions	TOIL-COURSE	100	•••		
36	Amalgamation of estates	•••	•••	•••		
37	Results of killabandi	•••	•••	•••		1
8 8 8 9	Progress of work Contents of record-of-rights	•••	•••	•••	•••]
40	Genealogical tree of owners	***	•••	•••		
41	Jamabandis	•••	•••	•••		1
42	Soils and revenue entries	•••	•••	•••	•••	. 1
43	Village administration paper Assessment order	•••	•••	•••	•••	1
4.4	Mutations	•••	•••	•••		1
44 45					i	
45 46	Order determining distribution of	assessmer	its	•••	•••	2
45	Order determining distribution of Maps Village note-books	assessmen	ıts	•••		1

ara.		Subject.				Page
	CHADDITA) TW Ass				
	CHAPTER	t IV.—Ass.	ESSMENT.			
49 5 0	Forecast estimate	***	104	***	•••	
51	Changes in cultivation Crops	•••	***	***	***	
52	Population and live-stock	•••	***	•••	•••	
53	Ownership	•••	***	•••	•••	
54	Alienations of land	•••	•••	•••	 -	
5 5	Prices of produce	•••	•••	•••	••••	1
56	Yield of crops	•••	***	••>	•••	
57 58	Tenancy	•••	•••	•••	•••	•
59	Kind rents Menial's dues	•••	•••	•••	•••	
60	Kind half assets	•••	•••	•••	***	
61	Cash rents	•••	•••	•••	•••	
62	Kind and cash rents compared	•••	•••	***		
68	Assessment reports	•••	•••	•••	•••	
64	System of assessment, Waziraba	d Tahsil	•••	•••	•••	
65	Assessments, Wazirabad Tahsil	•••	•••	•••	•••	
66	Canal rates, Do	100	***	•••	•••	
67	System of assessment Gujranwa	ıla Tahsil	***	•••	•••	,
68 80	Assessments, Gujranwała		L	•••	••• }	
69 70	Canal rates, Gujranwala Tahsil System of assessment, Sharaqpu		33	• • •	•••	
71	Assessment, Sharaqpur	10007715500000	Sp	***	•••	•
72	Results of re-assessment	•••	***	***	•••	
73	Canal rates in Hafizabad and K	hangah Do			•••	
74	Objections and appeals		***	•••		
75	Assessing agency	T 1 20 T	•••	•••		
76	Cesses	•••		•••	•••	
77	Protective well certificates		ý	•••	•••	
78	Instalments	•••	•••	***	•••	
.79	Dates of instalments	त्यमव जयते	***	•••	••• [
80	Term of settlement	IMMA AIAN	4.4	•••	•••	
i	CHAPTER VD	ISTUBUTION	OF ASSES	Sments.		
81	Previous methods	•••		***		
82	Method now adopted	•••	•••	•••	•••	
83	Its results	***	•••	•••	••• {	
84	Distribution among co-sharers	•••	•••	141	•••	
85	Lump sums on wells	•••	***	•••	••••	
	CHAPTER	VI.—Misc	EPITVEOR8	s .		
86	Revenue assignments			••		
87	Canal assessments thereof	***	***	***		
88	Patwari's circles and grading	•••	•••	•••		
89	Qanungos	•••	••• .	***	}	
90	Zaildari arrangements	***	•••	***	••• {	
91	Graded system of zaildars	•••	•••	6.0.0	•••	;
92	Secure and insecure tracts	•••	***	•••	•••	
93	Suspensions and remissions	•••	•••	•••	•••	•
94 95	Alluvion and diluvion Assessment instructions	***	•••	•••	••• [
	Code of trible customs	***	***	•••	***	
		•••		•••	•••	
96	Partitions			•••)	
	Partitions Duration and cost of settlement		***	•••	•••	
96 97	Duration and cost of settlement Notice of officers		***	•••		4

FINAL REPORT ON THE SETTLEMENT OF WAZIRABAD, GUJRANWALA AND SHARAQPUR TAHSILS IN THE GUJRANWALA DISTRICT,

1909-1913.

CHAPTER I.—Descriptive.

1. The tract included in this settlement consists of the three tabsils of Wazirabad, Gujranwala and Sharaq pur, of which the last belonged to the Lahore district up to 1st October 1910, when it was attached to the Gujranwala district. It lies between the Chenab and Ravi rivers, being a portion of the Rechna Doab, and is bounded on the north by the Chenab, across which lies the Gujrat district, on the east by the Sialkot district, on the south by the Lahore and Chunian tahsils of the Lahore district, and on the west by the Khangah Dogran and Hafizabad tahsils of this district. On the south-west corner small portions adjoin the Lyalipur and Montgomery districts. The total area and details by tahsils according to the latest figures (1911-12) which give the new survey results for nearly the whole tract except a few estates, are;—

Tahsil.		Number of estates.	Total area.	Total culti- vated.	Chahi and abi,	Nahri.	Others.
Wazirabad	to -	264	2 96,625	1 60 ,3 80	109,160	75 57	43,663
Gujranwala	•••	444	483,902	£08,223	163,652	Na	145,171
Sharaqpur	•,•	426	671,861	213,765	117,873	49,823	46,059
Total	•••	1,134	1,851,958	682,358	390,085	67, 380	234,893

The total area in square miles is 2,112. Of the estates shown above, 2, 8 and 20, respectively are Government reserves.

- 2. The country is a level plain with the upland or bar in the centre preinage.

 sloping down to the Chenab valley on the north and the Deg and Ravi valleys on the south. The general slope is from north-east to south-west and several nullahs cross the country in that direction. The main ones which influence agriculture are—
 - (a) The Palkhu in the Chenab circle of Wazirabad.
 - (b) The Aik or Nandanwah which runs through the Wazirabad tahsil into Gujranwala and gets lost there.
 - (c) The Khoth nullah a local drainage channel in the south of Gujranwala tahsil.
 - (d) The Deg and its branches and off-shoots like the minor Deg, the Bhed and Lailah, Chitrang and Nangwah in the Sharaqpur tahsil.
 - (e) The Anni nullah taking out of the Ravi in the south-western portion of Sharaqpur.

All these confer much benefit, but when there are heavy floods, especially in the winter, large areas of crops are submerged and destroyed. In order to protect the Upper Chenab Canal from the floods of the Deg and other nullahs in the Sharaqpur tahsil, a large embankment has been made from Dhingan to Sharaqpur to divert the floods into the Ravi river. South-west of this

embankment no water will escape into the Deg, Chitrang, Nangwah and Anni nullahs, canal irrigation taking the place of the uncertain nullah irrigation by jhallars and inundations.

3. The country naturally divides into four tracts, viz., the low-lying narrow riversin tract along the Chenab river on the north, the uplands in the centre, the Deg valley south of this, and the Ravi tract along that river.

For assessment purposes the uplands and Deg tract have been subdivided with regard to soil and irrigation facilities. The eastern portion of the uplands in both Wazirabad and Gujranwala tahsils adjoining the Sialkot district is very highly developed and has a large proportion of well irrigation and is called the Charkhari. The western portion in Wazirabad and central in Gujranwala comes next and is termed the Bangar. The remaining southwestern bit in the Gujranwala Tahsil is the Bar.

Thus the assessment circles in the Wazirabad tahsil are the Chenab, the Charkhari and the Bangar, and in the Gujranwala tahsil the Charkhari, Bangar and Bar. These were fixed at the last settlement and have been restained in this settlement without any alteration.

4. The upland portion comprised in the Sharaqpur tahsil is situated on the south-west and is called the Bar. Assessment circles, Shareqpur. The riverain tract along the Ravi river, but not touching it anywhere was called the Gasrah circle at the last settlement. The rest of the tahsil being the Deg valley was divided into two circles, the eastern called the Rohi and the western Kalrathi. These names based on soils were not suitable and have now been changed. On account of canal irrigation and system of assessment introduced into this tabell the assessment circles have been radically altered. The estates of the old Kalrathi circle east of the Deg diversion embankment have been transferred to the old Gasrah circle which will be called the Khadir circle. The rest of the Kalrathi circle has been divided into the southern and eastern Bangar circles, the former containing all the estates which will get perennial irrigation from the canal and assessment wherein will be made by the canal department, and the latter containing the estates where canal irrigation will be for kharif only and fluctuating assessment will be done by the revenue department. The old Rohi circle will be called the northern Bangar, and those estates thereof which have had to be given fluctuation on account of the Deg diversion have been transferred to the eastern Bangar circle.

The Bar circle has been divided into eastern and western; the former including all irrigation from the Upper Chenab Canal and the latter that from the Lower Chenab Canal. These new assessment circles will be brought into effect from 1912-18.

5. The soils in this tract are very varied and patchy. Rohi (sweet soils and vegetation.

Soils and vegetation.

exist all over in scattered plots, and all the soils are found in some estates. On the whole good rohi and missi prevail in the Charkhari circles, maira and tibba in the Wazirabad and Gujranwala Bangars, rohi and kakrathi in the Bangar circles of Sharaqpur, and missi in the Bar circles of Gujranwala and Sharaqpur. The Wazirabad Chenab and Sharaqpur Khadar circles are regular mixtures.

The fear expressed by Mr. O'Dwyer in paragraph 14 of his settlement report regarding water-logging has unfortunately come true. The mischief has extended to the western portion of the Wazirabad tahsil, and several estates of the Bangar and Chenab circles which get canal irrigation or are in the vicinity have become water-logged, large areas having become unculturable.

The injury is gradually extending but measures for checking it are in hand.

6. The average annual rainfall as given in the assessment reports is as follows:—

		Monsoon.	Cold weather.	Total.
Wazirabad	•••	18	5	23
Gujranwala		19	5	24
Sharaqpur	•••	13	3	16

The figures for the last two years. i.e., 1911-12 and 1912-13, are -

			Morsoos.		Cold W	KATHER.	Total.	
			1914.	1912,	19 12 .	1913,	1911-12,	1912-13.
		:	· · · · · · · · · · · · · · · · · · ·					
Wazirabad		į	7	14		2	11	16
Gujranwala		!	8	18	4.	4	12	22
Sharaqpur	***	•••	4	12	2	3	6	15

The year 1911-12 was a disastrous one and even 1912-13 below normal. Bad seasons have been pretty frequent of late, and in eleven out of ewenty years rainfall in September, which is the most important, was either nil or nominal.

The total average rainfall is sufficient for this tract, but there are violent fluctuations. In some years damage is caused by excessive rain and consequent floods; in others, and much oftener, the amount is quite insufficient or badly timed and crops suffer and cattle die for want of fodder. Timely and sufficient rain is indispensable for the large barani areas, especially in the Gujranwala Tahsil, but is also very necessary for success of large ted crops

7. A great change has taken place in this tract since last settlement by the construction of the Upper Chenab Canal—Main Line.

The Upper Chenab Canal—Main Line.

Canal and extension of irrigation from the Lower Chenab Canal to sixteen estates of the Wazirabad Bangar and the western half of the Sharaqpur Bar circles, the former being for kharif only and confined to rice and the latter being perennial.

The Lower Chenab Canal takes off the Chenab river at Khanki in the Wazirabad Tahsil and runs south-west about 26 miles in the tahsil before entering Hafizabad. Irrigation in Wazirabad is from two kharif channels and confined to 16 estates of the Bangar circles.

The Main Line of the Upper Chenab Canal which is nearing completion enters the Gujranwala Tahsil at Gagewali and runs down south-west into the Sharaqpur tahsil which it leaves at Khakh, falling into the Ravi river a couple of miles further.

A large number of distributaries are taken off both sides for irrigation in the Gujranwala and Sharaqpur tahsils, most of those on the right being for perennial irrigation and those on the left for kharif only.

8. The Raya Branch of the canal is a kharif one only and is taken off in the Sialkot district and is expected to enter the Sharaqpur tahsil at the south-east corner and run down west towards Sharaqpur. The irrigation will be confined to the south-east corner of the Gujranwala tahsil and practically all the estates of the Sharaqpur tahsil east and south of the main line and the Deg diversion embankment.

Thus far only a small length has been constructed in the Sialkot district from which one distributary did some irrigation in the *kharif* of 1912.

The Nokhar Branch, construction of which has been finally sanctioned but not begun yet, is also to be a *kharif* channel only. It will take off from the main line in the Sialkot district and run through the Wazirabad tahsil, irrigating all the estates of that tahsil south and east of the Wazirabad-Khanewal Railway and the main line of the Lower Chenab Canal, and some estates of the Gujranwala tahsil on the northern border. The whole of the Gujranwala and Sharaqpur tahsils will be commanded by the canal.

9. It has been decided that in all the estates of the Wazirabad tahsil and those of Gujranwala and Sharaq-pur east of the railway line from Lahore to Wazirabad and also in all others where the depth of the spring level does not exceed 30 feet, the irrigation from the canal will be for kharif only, will not be given to well lands, and will as far as possible be limited to waste lands. The general proportion of such irrigation will be 25 per cent. of the culturable area.

B zone. level exceeds 30 feet but does not exped 35 feet, the irrigation will be perennial and will be given for such proportion as together with actual well-irrigated lands in the estate will make up 75 per cent. of the culturable area.

In the remaining estates the irrigation will be perennial and for 75 per cent. of the total culturable area.

Roughly speaking, all the canal irrigation will be for kharif only in the Wazirabad tahsil, the portions of the Gujranwala Tahsil east of the railway line and on the northern border, and all the Sharaqpur tahsil east of the Main Line and the Deg embankment; whereas all the rest will be perennial. These zones are illustrated on the map.

Canal irrigation will cause a revolution in the agriculture of the tract, rendering the insecure portions secure and largely benefitting the rest, but the highly developed well estates where there is no waste and which have been the most secure ones in the past are likely to be injuriously affected by their tenants being attracted to canal-irrigated tracts.

10. Communications have improved considerably in all three tahsils since last settlement. The Wazirabad-Khanewal railway runs through the length of the Wazirabad tahsil; the Shahdara-Sangla and Chichoke-Shorkote lines traverse the Sharaqpur tahsil, and have brought the furthest tracts in all tahsils from over 40 miles to within 16 miles of railway stations. On the old line Lahore to Peshawar also several new stations have been opened and have facilitated trade. The road from Gujranwala to Hafizabad has been metalled throughout and that from Shahdara to Sharaqpur has also been metalled, but is in bad order already. There are sufficient unmetalled roads all over, but most of them have not been repaired for years and some of them are unfit for wheeled traffic and at times even difficult for camels, horses and donkeys. Most of the traffic is carried by donkeys and camels and carts are only used in some parts.

11. There are four towns in Wazirabad, viz.—

Wazirabad, population 17,438
Ramnagar, population 5,379
Akalgarh, population 4,050, and
Sodhra with 4,666 souls.

The first three are municipalities and the last a notified area,

In the Gujranwala tahsil the only towns which are also municipalities are Gujranwala (population 29,165) and Eminabad (population 5 526). Qilla Didar Singh a notified area has a population of 2,210. There is no town in the Sharaqpur tahsil. Sharaqpur itself is a municipality with a population of 4,483. Nankana the most important place in the tahsil the birth place of Guru Nanak, has a population now of 6,130 as compared with 2,023 in 1901. It is likely to increase in importance considerably.

There are markets and much trade at Akalgarh, Wazirabad and Gujranwala, and a mandi has recently been started at Nankana and one is about to start at Warburton, both on the Chichoke-Shorkote Railway in the Sharaqpur Tahsil.

There are factories for ginning cotton, husking rice and steam flour mills at Akalgarh, Wazirabad, Gujranwala and Nankana.

CHAPTER II .-- Fiscal History.

- Piscal history before Brisish rule.

 the Moghal period and during three centuries of that rule were populous, flourishing and farily cultivated. During the Afghan invasions and the struggles between the rising Sikh and decaying Moghal powers early in the eighteenth century the tract suffered considerably and many villages were abandoned. About the end of the century the Sikh power was consolidated under Maharaja Ranjit Singh and order and security was restored. Under the Sikhs the tract was parcelled out among jagirdars or kardars who realized as much as they could out of the people and had a perfectly free hand. The state demand absorbed all the profits of agriculture and left the cultivators a bare margin of subsistence. In addition to this troops were quartered on them and they had to put up with the exactions of regiments on the march
- 13. Thus at annexation the condition of the tract was as bad as possible. The summary settlement was made soon after annexation in 1947-18 and was based on the grain collections of five years by the hardars, a deduction of 10 per cent, being given and the rest converted into a cash demand at prevailing prices. It fell at Rs. 2-2-0, Re. 1-10-2 and Re. 1-10-4 per acre of cultivation in the Wazirabad Gajranwala and Sharaqpur tabsils respectively, and this will show how severe it was at the prices then prevailing. Of course it worked very badly; balances accrued, remissions had to be given, and in Gajranwala tabsil villages were sold up.
- 14. The first regular settlement of all three tabsils was made in 1853-56

 by Mr. Morris. He determined the reductions which were necessary in all tabsils and then worked out rates to bring out the desired amounts. The results were:—

		Tahsil.			Demand.	Rate on cultivation	Reduction, per cent.
					Bs.	Re. A. P.	
Wazirabad	• > •	•		***	1,67,645	1 10 6	17
Gujranwala		•••	***		2,82,741	1 4 10	191
Sharaqpur	•••	***	•••	•••	Cannot be	ascertained	11

The reductions given were not sufficient and some tracts were much over assessed. Remissions and further permanent reductions had to be made amounting to Rs. 5,130 in Wazirabad, Rs. 11,000 in Gujranwala and 3 per cent. of the demand in Sharaqpur.

In the Gujranwala tahsil rigorous measures were adopted against villages which refused to engage, and some estates and a large number of holdings were sold up. These harsh measures were repudiated by higher authority but much mischief had been done.

The revised settlement was made in 1868 under Mr. Prinsep's orders by Captain Nisbet in the Wazir-abad and Gujranwala tahsils and by Mr. Saunders in the Sharaqpur tahsil, One-sixth of the gross produce was made the basis of the assessment, and the demand was fixed after testing this with the previous demand and with estimates of plough rates, well rates and soil rates.

The results were :-

		Tahail.			Demand.	Increase, per cent.	Rate on cultivation,
					Be.		Ra. A. P.
Wazirabad	•••	•••	***	•••	1,69,470	Nil	1 4 0
Gujrauwala	•••	•••	***	{	2,2 3,7 37 2,4 8,618	4 <u>1</u> 16	1 0 Q 1 1 8
Sharaqpur	***	;•	•.•	{	1,82,817 1,87,60 5	5	187

Progressive increases were given out in all tahsils, but in Wazirabad these were finally ordered to be taken at once. For Gujranwala and Sharaqpur tahsils the upper figures give the initial and the lower the final demand. According to Mr. O'Dwyer these assessments in the Wazirabad and Gujranwala Tahsils were lenient, but were justified by the previous over-assessment, and on the whole worked well and realized without much difficulty; aithough in bad years relief was much required in insecure tracts, but was not given, and alienations of land rose with alarming rapidity. In Mr. Walker's opinion the Sharaqpur tahsil was assessed heavily and above its resources; between 1868 and 1885 there were several bad years when crops failed and cattle died but no relief was given. From 1886 to 1892, however, necessary suspensions were granted and eventually Rs. 68,670 were remitted.

16. The last settlement now under revision was made in 1892 and 1893 by Mr. O'Dwyer for the Wazirabad and Gujranwala tabsils and Mr. Casson Walker for the Sharaqpur tabsil.

The results are given below:-

					 \		BATES.	<i></i>		
Tabpil,	Circle.	Circle.		New demand.	Chahi.	≜ bi.	Sailab.	Baravi.	Total cultivation.	Increase per cens.
			Re.	Вя,	Bs. A. P.	Bs. A. P.	Re. A. P.	Ва. А. Р.	Bs A, P.	
	Charkhari		98,783	1,23,232	1 13 0		 }	1 0 9	1 11 0	3
d	Bangar		51,091	64,008	1 6 0			0 11 0	1 2 6	3:
Vatitabad	Chenab	••.	36,236	46,408	1 12 U		110	0 m n	. 167	3
	Taheil	•••	1,86,100	2,83,638	 . 1				3 7 1	
	Charkhari		1,41,617	1,74,866	180			0 12 0	1 5 4	•
	Bangar		92,261	1,10,320	1 6 0			0 10 0	0 15 11	
mjranwala	Ват	•••	30,048	43,426	100		•••	P 0	1/ 18 6	44
	Tahail		2,63,946	3,38,613				***	118	31
	Rohi	••	5 H, 6 5U	57,017	1 3 0	1 8 0		0 8 0	119	1
	Kairathi	•••	\$9,832	89,730	0 13 6	<i></i>		0 8 0	0 11 8	:
araqpur	Gaerah	•	33,566	24,430	1 2 0			0 10 0	111	:
	Bar		8,798	10,103	0 13 0			0 8 0	•0 13 •	1
	Tabeil		1,39,756	1,41,259				•••	0 15 1	

Mr. O'Dwyer considered his assessments of both tahsils moderate. This was fortunate for the tract, as it has been able to pay the demand even with diminished resources due to emigration of tenants to the canal colonies, bad seasons and large decrease among tenants and menials by deaths from plague. About the leniency of Mr. Walker's assessment there can be no question, as it practically maintained the previous demand and the progressive increases announced were never imposed.

It was also decided for the Sharaqpur tahsil that-

- (a) when a well fell out of use, the part of its assessment due to irrigation should be remitted, and if the land attached to it were abandoned, even the dry assessment should be remitted from the harvest when recorded waste;
- (b) wells temporarily relieved of assessment were to come under it again when brought into use;
- (c) such remissions could also be given on shares of wells, i' it could be shown that such share was abandoned for causes outside the owner's control;
- (d) the term of protective leases for new wells sunk in place of old ones was limited to five years.

The last decision was unfortunate, as a five years' concession is quite insufficient with the heavy costs a new well entails. This has now been rectified with the Financial Commissioner's sanction and twenty years' leases have been given to all wells constructed after 1893.

17. It has worked quite satisfactorily, and suspensions and remissions have been liberally given when needed, perhaps too liberally in the Sharaqpur tahsil. Details up to 1908-09 for Wazirabad and up to 1909-10 for the remaining tahsils have been given in the assessment reports.

Since then the figures of suspensions are:-

	 		- 1				
				1909-10,	1910-11.	1911-13.	Kharif 1912.
				Bs.	Rs.	Re.	Re.
Wazirabad	•••	***	•••	1,247	8,083	13, 510	507
Qujranwala	 •••	•••	400	2811	Nil	47,198	Nii.
Sharaqpur	 ***	•••	***	Nil	1,429	21,069	750

The year 1911-12 was a disastrous one and suspensions on a large scale were unavoidable. The figures for the other years are due to special causes like water-logging in Wazirabad and floods in Sharaqpur.

Rupees 175 were remitted in the Wazirabad tahsil in 1909-10 and 1911-12 on account of damage from hails. Summed up for the whole period of the expired settlement, the figures are:—

		Taheil,		Total suspended. Remitted.		Remitted.	Realised.	Still in arrears.
			-		Rs.	Re.	Rs.	Ra.
Wazirabad	•••	•••	•••	•••	68,749	Nil	87,348	23,401
Quiranwala	***	•••	•••	•••	2,56,581	27,000	1,82,123	47,459
Bharaqpus	•••	•••	***	•••	8, 16,6 35	1,48,206	1,48,864	19,566

18. The advances given for sinking of wells and purchase of well cattle and seed and straw are:—

					· · · · · · · · · · · · · · · · · · ·		For wells.	For cattle, seed and straw.
						ſ	Re.	Ro.
Wazitabed		B-4*		***	117		30,395	89 ,8 37
Gujranwala	•••	•••	474	113	111		18,690	70,8 48
Sharaqpu r	•••		•••	•••	***	••• }.	65,485	2,66,897

The Sharaqpur tahsil has received very generous treatment.

T9 The demand for 1911-12 compares as follows with that of the first year of last settlement and now sanctioned for this settlement —

					1892-98.	19 11- 1 2.	Now sanctioned
					Rs.	Rs.	Re.
Vuzirabad	***	7.1	109		2,82,143	2,33,679	2,59,500
dujranwala		***	***		3,23 ,897	3,18,49 3	8,95,226
Shuraqpur	***	***	***	•••	1,39,738	1,71,299	2,90,956
			Total		6,95,773	7,21,471	9,45,682

CHAPTER III .- Survey and Record-of-Rights.

20. A special revision of the records-of-rights for the three tabsile under report was directed by Punjab Government notification No. 224 Revenue, dated 9th October 1909.

The introduction of killabandi in the Gujranwala tahsil west of the railway line and in the Sharaqpur tabsil west of the Upper Chenab Canal was sanctioned in Punjab Government letter No. 1384 S. Revenue, dated 17th July 1908, but for financial reasons only Rs. 30,000 were granted for the year 1908-09 and so the staff entertained was a small one and work restricted.

This work nominally commenced on 1st October 1908, but on account of a severe epidemic of malaria and delay in crop inspection work it actually began in December. By 30th September 1909 field work that is laying down of killas on the ground was finished in 160 estates in Gujranwala and 60 in Sharakpur, khalaunis were prepared and repartition completed in 131 and 51, respectively, and 33 and 20, respectively were finally attested by Naib Tahsildars and 29 and 5 by Tahsildars.

21. From 1st October 1909 settlement and re-survey operations began in the whole tract.

The orders on the forecast report sanctioned re-survey by killabandically in the tract commanded by the Upper Chenab Canal subject to the owners agreeing, but on a separate reference permission was given to extend in into non-commanded estates, provided the owners expressed a desire for it

(Financial Commissioner's No. 6076, dated 7th December 1909). At the time it was believed that canal irrigation would be given to all the commanded estates, and even where limited to the kharif harvest well lands would not be excluded. Accordingly the owners of all commanded estates were persuaded to agree to it, and though there was some opposition in portions of the Wazirabad and Sharaqpur tahsils on account of the instigation and misleading of certain influential men, it was gradually overcome, and in the end these very persons recognised the advantages and were loud in its praises.

Killabandi has accordingly been done in all commanded estates and has included all lands, even the minutely sub-divided and very valuable well lands.

The final decision, that where canal irrigation will be for *kharif* only; no water will be given to well lands and will preferably be applied to waste lands has been a great disappointment to the highly developed estates where all the land is attached to wells and there is no waste. Regret was expressed to several such that they were needlessly put to the trouble and expense of *killabandi*, but the invariable reply was that they were glad it had been done, as it is advantageous in various ways and this tribute was much appreciated by the staff.

22. A rectangular survey of the whole tract commanded by the Upper Chenab Canal and included in the Rectangular survey. Lahore Sialkot, Gujranwala, Montgomery districts was made in the interests of the Irrigation Department, the work occupying about 18 months from December 1906. The orders were that instead of squares of 200 karams each, rectangles 200 by 180 karams and exactly 25 acres in area should be laid out in the tract and their corners demarcated by stones. It was also necessary to have these rectangles on a system of common base lines. Captain M. O. C. Tandy, R.E., of the Survey-Department devised a system of small base lines scattered all over the country due north and south or due east and west fixed from tri-junctions from data worked out and supplied by him. Experiments made with these according to his detailed instructions were found successful and the system was adopted with the Settlement Commissioner's sanction.

The materials supplied by the Survey Department consisted of an index map on a small scale of the tract in question, showing village boundaries, trijunctions and rectangles of 25 acres each, ruled in with numerous base lines north to south or east to west on the rectangular lines. With this were given traverse data for laying down the base lines on the ground from tri-junctions with the help of plane tables, rectangular magnetic compasses and sight rods. Captain Tandy explained to me at Simla how this should be done, and I worked it out on the ground and trained my staff. Only smart kanungos and Naib Tahsildars were used for base line work, but when these were laid and blocks formed by producing them wherever necessary, the breaking-up of the blocks into rectangles was a simple matter and done by ordinary patwaris. The results were most satisfactory. The rectangles over such a vast tract fitted in accurately and the canal officers who checked the work when levelling along the lines admitted its accuracy, and the costs were less than half those on ordinary square-laying. Great credit for this success is due to Captain M. O. C. Tandy who started the system and supplied data for the Gujranwala and Sialkot Districts. The data for the Lahore and Montgomery Districts were supplied by Captain E. A. Tandy, R.E.

23. For killabandi these rectangles were broken up into 25 equal rectangular fields of one acre each by dividing two perpendicular sides into five equal bits by chaining and then finishing up with sighting by flags. The amount of chaining required was reduced considerably and this was all due to Captain Tandy's excellent system. With ordinary square-laying the amount of chaining necessary would have been very large and expense considerably more.

In the Hafizabad tract laying-down of killas and writing-up of field books and khataunis was done at the same time, but experience showed that it was much better to lay down killas on the ground first and do the repartition and writing-up work afterwards. This enabled the owners to realize how their old fields were cut up into killas and they were able to assist in assigning these to the sharers best entitled to them and objections were reduced considerably.

The system pursued in this settlement was therefore somewhat different from that used in Hafizabad and much less expensive. All the work which required chaining, that is laying-down of killas, mapping the village boundaries, fixing in the roads, village sites, well enclosures, graveyards, ponds, &c., was done first of all, the chainmen dismissed, and then repartition and preparation of records was taken in hand.

Where village boundaries did not fit in, files were prepared and disputes decided and all boundaries were straightened in the preliminary stage and alterations after allotment of killas thus avoided.

Another improvement on the Hafizabad system was the specially designed mapping sheets prepared by the Mufid-i-'Am Press at Lahore. On these rectangles of 25 acres each were ruled instead of squares, and inside each rectangle killas were shown with red dotted lines. This made the patwari's work of inking in the maps easier, and the maps are very neat and accurate.

24. Before starting work detailed instructions consisting of 14 printed foolscap pages were drawn up and printed and copies supplied to all officials, zaildars, lambardars and leading men. The Tahsildars or Naibs then went to each village, explained matters and got the people to agree to killabandi, recorded their statements to this effect and also as to the method to be adopted in repartition of the estate, entered up and sanctioned a mutation declaring all the land of the estate to be joint, the share of each owner being the area of land recorded in his possession in the last jamabandis.

The preliminary file was then sent up for sanction to the method of partition proposed to the Settlement Officer or the Extra Assistant, and on receipt of his order work was commenced.

The almost invariable method of partition proposed and sanctione d was that each owner should get his due proportion of all classes of land and that possession should be maintained as far as possible, killas including the lands belonging to more than one owner being given to the one who owned most, except when a deviation from this became necessary to make up deficiencies or reduce excesses. The straightening of village boundaries, re-alignment of roads along rectangular or killa lines, breaking-up of killas into regular equal bits on minutely divided wells or valuable lands near village sites, exclusion of any special lands from killabandi, disposal of valuable trees on exchanged lands and every other detail was duly provided for so as not to leave any matter for dispute or in the hands of the subordinates.

25. As killabandi radically alters the previous fields on the ground and entries in the records, it was con-Old field numbers. sidered most important to give the numbers of the old fields included in each killa and in case of killas including old fields belonging to several owners to specify the one in lieu of and to the owners of which the killa was assigned. For this purpose a circle has been drawn in the field book and khataunis round the number concerned, and this facilitated check and disposal of objections. In the case of estates where at the last settlement re-survey was done by squares the work of giving the old field number was simple, one rectangle being fixed on the last settlement map from the ground, and on this foundation rectangles and killas ruled on the whole map in green colour, showing at a glance the old fields included in each killa. In estates where the old maps were only amended ones this work entailed great labour and considerable difficulties. Such maps were not true to scale, and the only way was to fix each killa on the old map from the ground.

The resulting map killas were nowhere rectangles, but assumed all sorts of shapes and dimensions. In such estates the work of giving old field numbers was all done on the spot, and the number thereof in Wazirabad being 195 and in Gujranwala 162 and all these the highly developed estates with minute subdivision of fields the extent of the work involved in this connection can be realized. It has been carefully checked by all officers from myself downward and is as correct as possible. Orders were given that where the area of any old field included in a killa was a few marlas only it was not to be entered. The old field numbers have been entered in the appropriate columns of the field book, khataunis and settlement jamabandis, but will not be repeated in subsequent jamabandis.

26. The numbering of killas is not by rectangles. In this tract ownership is not by rectangles but by wells, and generally a well comes into several rectangles and one rectangle has the

lands of severat wells in it. Numbering by rectangles would make crop inspection work troublesome and be of no advantage. It was therefore decided to number killas by wells as far as possible, and to arrange them in such a way that the patwari by going along one line can write up entries about killas on both sides without trouble. Killas have been marked on the ground and embankemnts made only in cultivated lands or divided waste. In the case of jointly owned waste which is of good quality and likely to be irrigated from the canal or otherwise cultivated, they have been shown on the maps by broken lines and not made on the ground. The agriculturists can easily do this for themselves when required by means of ropes. Joint lands not fit for cultivation have been shown on maps by rectangles and not divided into killas.

27. In the majority of estates including some of the Sialkot adjoining ones the owners agreed to straighten Village boundaries. their village boundaries and in some cases even tri-junctions were moved to fit the altered boundaries. Some owners were eager to have their boundaries remodelled on killa lines so as to keep their killas unbroken, but in most cases this resulted in very complicated lines looking like regular steps and was discouraged, straight boundaries for long distances being preferred. Village roads have generally been remodelled along killa lines, the only ones left untouched being those which passed through valuable lands where any change would be resented or where there were parties among owners and an agreement was impossible, or where the old road was higher or lower than adjoining fields and could not be included among them. Water-courses have all been made along killa lines, and on account of the system of common base lines the field boundaries run straight not only through one estate but from one to the other and where properly made one can walk along them for miles.

Every boundary dispute and alteration of boundaries was disposed of by a separate file which contains the statements of the owners, a map showing the old and new boundaries and the order sanctioning the new line. All alterations in the boundaries of rakhs were sanctioned by the Financial Commissioner.

28. When the actual spot work was finished and chainman discharged the patwari proceeded to allot the killas.

the patwari proceeded to allot the killas and write up the field book and khataunis. In some estates where owners were sensible and on good terms with each other the repartition was done entirely by themselves and the patwaris merely wrote up the papers. There were no disputes and some owners gave up scattered fields all over and consolidated their holdings. In other estates the patwari allotted the fields according to the sanctioned method and made entries accordingly in the papers. The intermediate check of the officers was confined to seeing that all orders were being observed and entries correctly made. On completion of the repartition the totals were made up

and then came the difficult task of taking away some killas from one helding and adding them to others to satisfy objections and making up deficiencies in areas. Where the kanungos and patwaris were honest and did this work carefully the results were satisfactory otherwise the work of the Naib Tahsildars and Tahsildars was enormously increased and even then some owners were dissatisfied.

- 29. In his final attestation the Qanungo had to demarcate all killas and satisfy himself that all entries were in accordance with allotments made to the owners. He had to dispose of all objections and after checking the khatauni totals to satisfy himself that each owner got the total area due to him and fair proportion of all classes of land. All private partitions were completed during killabandi and shown in the papers. Where all the sharers of joint holdings wanted their shares separated and there was no dispute, this was done during killabandi without making any separate partition files.
- 30. In killabandi the Naib Tahsildar's work was the most important.

 He prepared the preliminary files and reported about rectification of boundaries and roads, &c., and sanctioned the mutations in connection with these; and the repartition was practically decided by him. It was only where there were objections or appeals against his orders that superior officers interfered. In his final attestation he demarcated as large a proportion of killas as possible, and where the kanungo was not reliable he had to go over every field. He listened to all objections and decided them and had to make up each sharer's land. When all this was done and necessary alterations made the mutation of killabandi partition was written up and decided by him.
 - 31. This mutation being the most important document in the record-of-rights it is desirable to describe it in detail.

In column 4 the opening entry is shamlat deh, shares being according to the area entered in the last jamabandi. This is followed by the names of the owners and their shares in each holding of the jamabandi. Entries in column 5 (tenancy) are only made in case of occupancy tenants and mortagages or purchasers of specific fields in any holding. Column 6 gives the number of fields comprised in and the total area of the holding; all other particulars can be obtained from the previous jamabandi. The entries in columns 8 to 12 are copies of the new khataunis, and in column 11 every killa is entered with its area. Details of soils are not given for each field, but are given for the total of the holding.

No fees was charged under the orders of the Financial Commissioner. This mutation has a reference in column 2 to the mutation whereby the village was declared shamlat deh and also to all mutations regarding changes caused by straightening of boundaries. At the end of the mutation is an abstract showing for each holding the area before killabandi and that due under partitions from joint holdings, together with the proportional excess or decrease caused by the re-survey in the whole estate and the total thus arrived at as due to the holding. This is compared with the area actually given in the repartition. The patwari's report mentions that the killabandi partition was made according to the sanctioned method and the owners had taken possession of the killas allotted to them. The Qanungo's report specifies his having demarcarted all the killas and attests possession in accordance with the entries.

The Naib Tahsildar's order is a detailed one. It mentions the names of all the right-holders present and their acceptance of the partition made, all objections and the manner in which disposed of are given in detail. The amount of demarcation personally made by the Naib Tahsildar is mentioned and an assurance given that he has satisfied himself that the entries are correct and every owner's land properly made up and all reasonable objections removed. The mutation is then sanctioned and the

signatures or thumb marks of all present affixed. Every alteration is initialled by the Naib Tahsildar, and if ever any doubt arises as to entries in khataunis or jamabandis, the entries in this mutation should be referred to and accepted as correct. In estates where others than members of agricultural tribes also own or are mortgagees, there is an order sanctioning the exchanges under the Alienation of Land Act, by the settlement officer who was invested with powers of a deputy commissioner under the Act.

32. When the alterations consequent on changes made by the Naib

Tahsildar's final attestation.

Tahsildar were completed and the papers all signed by hin the records were ready for the final attestation of the Tahsildar.

This consisted of attestation of khataunis and genealogical tables, hearing objections and disposing of them, checking some of the straightened boundaries with the files, a certain amount of demarcation and checking of other papers. Where objections were numerous, a good deal of time had to be spent in removing them and many alterations had to be made in the khataunis and killabandi mutation. Where both parties agreed to the change, the Tahsildar disposed of it himself by sanctioning mutations of exchange. Where the parties did not agree the matter was referred to me. If I agreed with the Tahsildar, the Naib Tahsildar was directed to review his order, if not, the dissatisfied party was informed and could appeal.

On completion of the Tahsildar's final attestation the premilinary killabandi file was sent up to the Extra Assistant with a report that the partition had been completed and acted upon and after satisfying himself that officer finally sanctioned it.

33. A large number of villages in the Chenab circle of Wazirabad not commanded by the canal expressed a de-Killabandi in the Chenab circle. sire for killabandi, and as it was intended to introduce fluctuating assessments there as in the Hafizabad Chenab circle, its introduction into non-commanded estates was recommended and sanctioned by the Financial Commissioner as already mentioned in paragraph 21. In the end it was done in all the estates of the circle except two (Rana and Bahram) on the eastern border. Base lines in this circle were laid by the Survey department under the supervision of Lala Maya Das Puri assisted by some settlement Qanungos. Traverse points were fixed at suitable distances on high banks both sides of the river and these and the base lines were plotted on rectangular mapping sheets, on which were also shewn the fixed boundaries with Gujrat villages laid down by Mr. Townsend in 1903-04, taken from the village maps of both sides. In many cases these did not coincide, the discrepancies being due either to incorrect plotting thereof on the maps of this or the Gujrat district or to the system of squares not being correctly taken across the river. All such discrepancies have been set right with the concurrence of officials and owners of both sides, separate files being prepared for each case. The remaining work of killabandi was done in the same manner as in the canal commanded estates. Stone pillars have been erected on suitable base lines all over, so that the system of rectangles can be relaid at any time. Killabandi has however rendered these unnecessary.

In the two estates the owners whereof did not want killabandi re-survey on squares was done at the last settlement, and it was found by checking that entire re-measurements were not needed. The system of rectangles was plotted on the old maps and fields which had not changed in any way were copied in and the rest re-surveyed.

84. Killabandi was not required and has not been done in those estates of the Bangar circle of Wazirabad which are situated west of the Lower Chenab Canal and get no irrigation from it. In five of these the maps were amended at the last settlement and were not found satisfactory and re-survey has been done on rectangles. In the rest (six estates) the last settlement maps were amended as described in the foregoing paragraph. In the estates which get irrigation from the Lower Chenab Canal killabandi was done in 1906. The Crown estates 25 in number have been left alone.

- 35. Considering the permanent nature of the survey here and the rectification of village boundaries the owners were persuaded to make their tri-junctions permanent also and all agreed. Stone tri-junctions were accordingly put up everywhere.
- 36. Several estates in all tahsils had separate records of rights but one common map, their fields being interspersed all over. For killabandi purposes it was found necessary to amalgamate such and where the owners had no reasonable objection this was done. Some other contiguous ones were amalgamated as belonging to same owners and having inconsiderable areas. On the other hand two new estates were constituted in Gujranwala and three in Sharaqpur on the applications of the owners concerned. The final results are a reduction of 2, 12 and 3 respectively in the Wazirabad, Gujranwala and Sharaqpur tahsils.
- 37. The people in general are highly pleased with killabandi. Of course as was to be expected in a tract like this, there were numerous objections which were disposed of during final attestations by Naib Tahsildars or Tahsildars or after final attestations were completed by the Extra Assistant Settlement Officer or myself.

Seventy appeals were instituted against the orders of the subordinates, of which 9 related to new roads, 6 being rejected and 3 accepted, 6 were about rectified village boundaries, 5 being rejected. Fifty-five were against allotment of killas, 36 were rejected, 7 accepted, and orders modified. In two cases the partition was so badly done that I ordered a complete revision. In the course of these appeals the work of the subordinates was subjected to close scrutiny, and came out satisfactorily. Thus far seven appeals have been made to the Commissioner against my orders, and all rejected.

With killabandi it is hoped that no special revision of maps will ever be required. The people are likely to maintain it and the staff should assist them in this. If it becomes necessary to break killas on account of partitions or other transfers the division should always be made in equal and regular bits. The village boundaries have also been carefully fitted in and straightened as far as possible and disputes should be very rare. Disputes regarding field boundaries will not occur at all and there have been hardly any since it was introduced. The other advantages are too well known now and described in paragraph 35 of the Hafizabad settlement report, and need not be repeated here.

38. The amount of work done up to 1st October 1909 has already been given in paragraph 20.

Progress of work.

During the first year of the settlement, that is up to 30th September 1910, the work of laying down killas on the ground was completed in 728 estates, khataunis prepared and re-partition completed in 523, and 296, 250 and 198 estates were finally attested by Qanungos, Naib Tahsildars and Tahsildars, respectively.

By the end of the second year (30th September 1911) field work was finished in 1,083 estates and only 13 were left. Khatauni and partition work was completed in 994 estates, only 102 being left and none in Gujranwala Tahsil. Final attestations were made for 581, 525 and 474 respectively, and jamabandis by killabandi were completed for 319 estates.

Spot and partition work was all finished in the third year except in 11 estates of the Sharakpur Tahsil situated inside rakhs for which proposals for consolidation of scattered plots and rectification of boundaries were submitted, but no orders received, and by the end thereof the jamabandis of 628

estates were ready and the patwari's copies for 365. The Wajib-ul-arz was revised and completed for all estates. On 30th September 1912 final attestation work was remaining to be done by Qanungos, Naib Tahsildars and Tahsildars in 99, 129 and 209 estates, respectively.

The work remaining to be done on 1st April 1913 was as follows:-

_	Detail of work.		Gujranwala.	Wazirabad.	Sharaqpur.
1.	Killabandi	•••	Nil	Nil	3
2.	Preparation of records		Nil	Nil	:1
3.	Final attestation of Kanungos	•••	Nil	4	22
4.	Di to of Naib Tahaildiers		Nil	16	25
Б.	Ditto of Tabsildars	•••	Nil	21	29
6.	Jamabandi office copy		11	46	146
7.	Ditto patwari's copy		14	68	179

The entries at stages 1 and 2 for Sharaqpur are due to the estates situated in rakhs for which final orders of the Financial Commissioner were received in March 1913.

In addition to this there was all the work of copying of village maps on tracing cloth for table offices and preparation of parcha bahis for rightaholders to be done. This was all completed by 31st October 1913.

- 39. The record-of-rights contains the following documents:—Contents of record-of-rights.
 - (a) The preliminary proceeding.
 - (b) Genealogical tree of owners.
 - (c) Jamabandi with index of holdings and index of fields.
 - (d) List of revenue assignments and pensions.
 - (e) Statement of rights in wells.
 - (f) Village administration paper (Wojib-ul-arz).
 - (g) Order of Collector determining the assessment.
 - (h) Sanctioned mutations with index.
 - (i) Order of Collector distributing the assessment.
 - (k) Field map with index map.

In the preparation of the records it was borne in mind that on account of the great changes due to *killabandi* the previous records are quite out of date, and therefore the new records should be complete in themselves and as far as possible reference to the old records should not be necessary.

40. As in the case of Hafizabad according to Sir James Wilson's instructions the entries in genealogical trees were carried as far back as possible, so that the document may be completed for every purpose including pre-emption rights. Superfluous names have all been omitted. Previously the tree of all owners who held land in more than one taraf or patti either by inheritance or purchase was made in detail in each such patti, now it has been shown in one place only and reference given in the remaining pattis.

The genealogical tree has been put in a pocket in the jamabandi cover except in large estates where a separate cover has been provided.

41. With killabandi it is desirable that the jamabandi should be prepared after crop inspection for two harvests by Jamabandis. killas, so as to ensure that the repartition by killas has been acted upon. This was necessary in Hafizabad where laying down of killas and partition went together, and very often at the Naib Tahsildar's final attestation the allotment had not been carried into effect. In this settlement with laying down of killas in advance the old fields ceased to exist long before the Naib Tahsildar's attestation, and it was necessary to prepare a new register for crop inspection work. In most cases therefore the killabandi was acted upon and crop inspection for two harvests on killas completed before the Naib Tahsildar's final attestation. All the jamabandis completed up to 1912 were prepared from such crop inspection registers and attested on the spot by all officials. In the case of the estates not so completed, these being the large and complicated ones and their khataunis being lately attested on the spot after killabandi was fully acted upon, the jamabandis are copies of khataunis and not attested on the spot. It is believed that these are quite accurate, still they should be attested as soon as possible under the quadrennial rules.

The names of absentee right-holders and those out of possession were expunged or otherwise dealt with under the instructions contained in the Settlement Manual. The rights of purchasers and mortgagees to share in the shamilat where doubtful were in every case decided by mutation orders, and those not entitled to it recorded "malikan qabza."

In most estates the entries regarding shamilat deh were hash rasad khewat without any definition as to which settlement was meant. The owners were persuaded and almost invariably agreed to alter these into definite entries like hash arazi or hasab jama of 1892 or 1868 as they liked. Such alterations were made only where all the owners agreed, where they did not the old entries were continued, but such cases are rare.

Old field numbers of each killa were entered in the appropriate column as described in paragraph 25.

- 42. The orders about record of soils were that chahi, nahri, sailab and abi were to be entered as such, but all barani and waste lands were to be classified for purposes of canal irrigation. The Settlement Commissioner sanctioned the following classes:—
 - (a) Chahi.
 - (b) Nahri,
 - (c) Abi.
 - (d) Sailab.
 - (e) Barani 1st class.
 - (f) Barani kalrathi.
 - (g) Barani tibbą.
 - (h) Waste 1st class.
 - (i) Waste kalrathi.
 - (k) Waste tibba.

The 1st class barani or waste includes all rohi (sweet clay) missi (firm loam) and maira (light loam) which are fit for all canal crops. Kalrathi or sour clay is only fit for rice, and does for wheat which is however inferior. Tibba (sandy) is unfit for canal irrigation. Soil entries in accordance with these instructions were made in the jamanbandi for each killa, but need not be repeated in subsequent jamabandis.

In estates where fixed assessments have been maintained the old demand for each holding is entered in black and the new demand in red.

The rents paid and entered were carefully enquired into at crop inspections and attestation of khataunis and are believed to be correct.

Menial's dues paid from the common heap were also carefully enquired into, and have been recorded in the form of a note in the remarks column. The mutations relating to each holding are referred to in the remarks column, their number and class being given.

The index to holdings will facilitate the finding of any owner or holding in the jamabandi at once. The index to fields will do the same for fields. It has acted as a check also to every field being included in the jamabandi.

- 43. The village administration paper was revised and brought up to date for every estate by the Extra Assistant Settlement Officer. Sections which were useless on account of their matters being governed by law or rules were omitted. The chief points dealt with relate to management of joint lands and village cesses, the rights of the tenants to trees and grazing their cattle, the services rendered by and payments made to menials, the rights of Government to quarries &c., and customs regarding burial and burning grounds.
- 44. The original order of the Collector determining the assessment of each estate is in English on the abstract note. Printed forms in vernacular giving a brief abstract of the orders of Government and fixed assessment or fluctuating rates for the estate duly signed have been attached to both copies of jamabandis and copies given to lambardars.
- 45. The number of mutations attached to famabandis is very large as none were prepared for years. The number disposed of by the settlement establishment up to 31st March 1913 was 65,941 including one killabandi partition mutation for each estate, which is bulky enough in small estates, means, a separate volume in ordinary and more than one volumes in large estates. It may be mentioned here that the standing records of many villages were found much out of date and contained serious errors in names and shares, &c. Mutations which had occurred soon after last settlement were not discovered and incorporated into the records. In some large villages khatauni attestations brought to light hundreds of mutations.

The documents (a) to (b) in paragraph 39 have been bound up into one or more volumes with the jamabandis, both office and patwar copies being strongly bound with leather backs.

- 46. The order of the Collector distributing the assessment over holdings was passed on the backch files which have been separately consigned into the record room.
- 47. The original maps are on mapping sheets described in paragraph 23.

 Maps.

 Unfortunately the Mufid-i'Am Press did not use good paper or cloth and some sheets have been badly damaged and had to be patched up. Patwaris were given copies on long cloth only, and a third copy made on tracing cloth with the Financial Commissioner's sanction will be kept at tahsil offices.

Strong steel almirals have been provided for storing the maps at head-quarters and tahsils, the mapping sheets for each estate being fastened at all corners with laces through eyelets inserted in the sheets. The index maps prepared on a scale of 4 inches to the mile have been filed with the village maps at head-quarters. Long cloth copies of maps of commanded estates were also supplied to the irrigation department at their cost.

The northern and scuthern sides of the killas are 40 karams or 220 feet and eastern and western 36 karams or 198 feet. The dimensions of fields were only entered on the maps and in field book and khataunis in case of broken up killas or fields which were not remodelled on killa lines.

As in C zone estates all the waste and in others a good portion thereof will shortly become cultivated with canal irrigation it would be useless colouring it. Only unculturable plots like village sites, roads, &c., were coloured.

New small scale maps of the three tahsils were prepared and all changes made shown thereon including the canals, branches and distributaries already made or aligned, and it is hoped that a new map of the district including Hafizabad and Khangah Dogran tahsils will be compiled and printed as it is much needed.

48. New bilingual village note-books were brought into use from 1911-12 and no change made in their forms. New abstract note-book forms were submitted for approval. For estates under entire fluctuation these are practically the same as were approved of and used for the Hafizabad and Khangah Dogran tahsils. For the rest they are much the same, alterations being made to show the nahri crops under fluctuation and in the columns for land transfers.

My village inspection notes and assessment orders are recorded on the old abstract note-books, and these will be taken out thence and bound up in the new volumes together with copies of the last settlement notes.

CHAPTER IV.—Assessment.

49. A general re-assessment of this tract was directed by Punjab Government notification No. 223-Rev., dated 9th October 1913. In the forecast report an increase of two lakhs was expected on the demand of Rs. 7,24,000 for 1907-08 Of this one lakh was from the Gujranwala and Wazirabad tahsils at 20 per cent. for rise in prices, and the rest from Sharakpur due to rise in prices and increase of resources chiefly in the Bar Circle on account of extension of irrigation from the Lower Chenab Canal.

The re-assessment had also become necessary to provide for the expected irrigation from the Upper Chenab Canal.

50. The changes in cultivation will be apparent from the following statement:—

		Total	ARBA.	CULT BD, OB	IVAT- PER- BT.	CHAR ABI	IAND PBB Sr.		ERI, ER BT.	GAT	EBI-	Aog MBri	R FIT	Marts	IB USZ.
Taheil.	Cirole.	Laet Settlement.	Now (1911-12).	Last Settlement.	Now.	Last Settlement.	Now,	Last Settlement.	Now.	Last Sottlement.	Now.	Last Bettloment.	Now,	Last Settlement.	Now.
Wattrads.	Charkbari Bangar Chenab	 105,674 108,673 74,058	104,316 111,330 81,349	60 52 64	67 64 87	64 46 20	57 33 17	 3	 7 	. 5 6 24	7 14 20	Cannot be found.	2,004 1,133 870	1,012 1,108 680	1,818 994 741
PE .	Total	 288,305	396,695	56	54	45	37		9	10	16	Cen	4,007	3,600	8,546
Gerba rw ala.	Charkhari Bangar Bar	 219,463 164,634 99,880	\$18,561 164,671 100,770	59 63 66	68 71 66	51 47 25	39 35 19			8 21 31	19 36 45	3,091 1,717 518	2,953 1,668 635	2,962 1,673 600	3,636 1,520 461
9	Total	 483,957	683,903	62	64	44	34			18	30	5,336	8,186	5,143	4,616
SEABARTOR.	Rohi Kalrathi Gasrah Bar	 256,427 156,183 50,139 128,409	\$41,671 156,189 46,883 123,610	\$1 84 63	34 39 68 48	19 27 52 6	18 37 49 5	::	 1 39	3 7 11 8	6 11 19	1,380 1,310 955 204	1,537 . 1,975 . 994 . 255	1,187 1,071 914 198	1,261 1,010 674 16
	Total	 671,158	671,361	25	97	3 1	21		8	5	8	3,699	4,061	3,370	3,31

When the assessment reports were prepared the new survey figures were not ready and old statistics were used. The new survey figures revealed that large areas of cultivation which had become barani were still recorded chahi, and some areas which should have been entered waste were shown cultivated. There was a decrease in well irrigation and increase in dry cultivation in the Gujranwala and Wazirabad Tahsils according to the old figures, but the new figures show it to be much more. The information given by these figures may be summed up as follows:—

- (a) There is a slight decrease in total cultivation in the Charkhar circles of both tahsils and in the Chenab circle (the large decrease shown in this circle is not real, and is due to the addition of about 6,000 acres of unculturable lands by fixed boundaries), slight increase in the Bangar and Gasrah circles, substantial increase in the other circles and a very large one in the Sharaqpur Bar due to canal irrigation. There is a large decrease in well irrigated cultivation and the number of wells in use in all circles of the Wazirabad and Gujranwala Tahsils except the Chenab, amounting to 25 per cent. in some.
- from the following statement giving percentages on cultivation and compiled for the years on which the two re-assessments were based. Figures by assessment circles will be found in the assessment reports.

				WAZIE	RABAD.	(ivjba	NWALA.	SHAR	QPvB.
	Crops.			Last Settlement.	Now.	Last Settlement.	Now.	Last Settlement.	Norf.
Sugarcane	***	•••	•••	(Company)	8	3	2	***	•••
Cotton	•••	•••		स्या	व नयत्	4	2	3	3
Maize	•••	•••	•••	5	8	8	2	4	3
Rice	•••	•••	•••	8	4	3	1	9	6
Others	•••	***	•••	17	18	22	15	7	4
Tota	l käarif har	vested	•••	84	26	84	22	22	16
Tota	l kharif son	'n	•••	38	80	38	28	28	22
Wheat	•••		•••	87	29	25	19	32	81
Barley	•••	•••	•••	11	4	9	8	8	3
Oilseeds	***	•••	***	1	1	1	3	1	4
Gram	•••	•••	•	•	5	5	11	4	14
Others	•••	•••		16	18	15	20	7	7
T	otal robi has	rvested	•••	69	57	65	56	52	59
	Total rai	dwos i	•••	73	70	58	66	60	€5
Gr	and total has	rvested	***	108	82	89	78	74	75
	Grand tota	l sown	•••	108	10 0	96	94	88	88

There is a decrease in efficiency of cultivation, large in Wazirabad and substantial in Gujranwala, but none in Sharaqpur. The proportion of valuable irrigated craps like cane, cotton, maize, rice and wheat has fallen off everywhere, and there is an increase in the unirrigated rabi crops of gram and mixtures thereof.

52. The above falling off is a good deal due to shortage of tenants on account of emigration to canal tracts and deaths from plague, and the census returns are suggestive and are summarized below by tahsils:—

3	aheil.		1891.	1901.	Change per cent.	1911.	Change per cent. in 10 years.	Change per cent. in 20 years.
Wazirabad	***	, ***	183,606	183,205	Nil.	148,998	-19	-19
Gujranwala	***	431	269 ,16 6	252,863	-6;	218,878	-14	- 19
Sharaqpur	***	•••	183,361	118,989	-11	143,587	21	8
							ł	

Between the two settlements there has been a large decrease of population in the Wazirabad and Gujranwala Tahsils and a slight increase in Sharakpur due to canal irrigation and colonization of Crown lands. The change in ploughs and cattle is as follows:—

			Tahsi	1.) () ()	Ploughs.	Well and plough cattle.	Milch cattle,
							Per cent.	Per cent.	Per cent.
•	Wazirabad		•••	:.7	1	 .	-8	-10	+ 19
	Gujranwala			114			+18	- 20	-16
	Sharakpur				144		+ 9.6	+ 5	-9

53. The chief owners in the Wazirabad tahsil are Cheemas and Chathas, both Jats, mainly Muhammedans, who own nearly 80 per cent.and are good cultivators and industrious. In the Gujranwala tahsil Wiriks (Sikh Jats, owning 4th), Waraichs (also Sikhs) and miscellaneous Jats both Hindus and Muhammedans are the chief owners and all good cultivators.

In Sharaqpur tahsil Arains and Lobanas, who own it are excellent cultivators. Jats who own about it is are a miscellaneous lot. Of these Wiriks who are both Hindus and Mussalmans are good cultivators, the rest all Mussalmans are indifferent but have improved since last settlement. Rajputs own about it and are also improving although still far behind.

Cultivation in Wazirabad and Gujranwala and in the Arain and Labana estates in Sharaqpur is generally good, and excellent and intensive where holdings are small, as is the case with Cheemas, Labanas and Arains.

54. The transfer of land since the last settlement are summarized in the following statement, the total period being divided into two, the first preceding the passing of the Alienation of Land Act and the second succeeding it. The figures are percentages:—

					Sales.			LANDS	HELD UND	BE MORTS	AGES.
	D. 13		Total	sales.	To agric	ulturists.		Total m	ortgages.	Toagrio	ulturists.
Tahsil	Dotails.		Total area.	Cultivated,	Total area.	Cultirated.	Price per acre,	l'otal area.	Cultivated,	Total area.	Cultivated.
	Up to 1900-01 From 1901-02		έ·δ 4•5	9 5	5 3	4·5 3·5	81 47	•••			414
Wazirabad,	Total		19	14	8	8	86	13	17	4:5	6
	Last Settlement	•••	8	12			23	10	16		241
	Up to 1900-01 From 1901-02		5 5·5	6 5·5	2°5	8 4	88	,	. **		est
Стлвай мала,	Total	***	10.8	11.5	6.2	जयते ₇	47	11	14	4	6
	Last Settlement		10	14	4	5	18	8	12	2	8
	Up to 1900-01 From 1901-02	B41	7 3·5	8·5	4 8	8	16 25	***		100	**1 **8
Shabaqpub.	Total		10.5	8.2	7	б	19	8	11	4	5
	Last Settlement	•	12	16	7	10	7	8	11	8	4

Before 1901 the alienations were considerable, but since the passing of the Alienation of Land Act matters have improved, and a larger proportion goes to members of agricultural tribes. Prices have doubled in Wazirabad and more than trebled in the remaining two tabsils since the Alienation of Land Act was passed.

55 The commutation prices sanctioned at last settlement and now are Prices of produce.

		National Staple Staple Staple Staple Sharakpur Shara	HMBNT.					
Rice Cotton Gur Maize Jowar		st	aple.				Sharakpur.	Now.
	••	, Lacroter Calc			-			·····
Rice	•••	•••	•••	•••		2 0	20	28
Cotton	***	•••	•••	•••		58	53	74
Gur	•••	•••	•••	***		43	40	57
Maize	***	•••	***	•••		20	19	28
Jowar	•••	•••	***	•••		18	18	28
Bajra	•••	•••	•••	***		21	18	27
Pulses	•	•••	•••			21	21	40
Wheat	•••	•••	•••	•••		25	24	34
Barley	***	•••		•••		16	17	22
Gram	•••	•••	•••	•••		18	18	28
Oilgged	6	***	***	•••		53	32	52

The rise as worked out in the assessment report is:-

		600		Marvest prices.	Assumed prices.
Wazirabad	***	••• 1		36	86
Gujranwala	•••	•••		39	3 8
Sharakpur	•••		ELL PUR	77	44

These figures show that those assumed for Wazirabad and Gujranwala at last settlement corresponded with harvest prices, but were too low for Sharaqpur. Compared with existing prices those assumed for this settlement are low for some staples.

- 56. The rates of yield are given and discussed in the assessment reports, xield of crops.

 and subsequent experiments have not caused me to modify my opinion. The changes made on the figures adopted at last Settlement are as follows:—
 - (a) In the Wazirabad Chenab circle the rates of sailab wheat and barley were raised from 5 to 6 maunds.
 - (b) In Gujranwala the rate of gur in the Bar circle was raised to 16 maunds, of chahi cotton from 4 to 5 maunds, of maize from 8 to 10 maunds, of toria from 4 to 5 maunds in the Charkhari and Bangar and 6 maunds in the Bar, of chahi wheat from 9 to 10 maunds in the Bar. For barani wheat 6 maunds were taken throughout and for gram 8 maunds.
 - (c) In Sharakpur Tahsil the yield of rice was raised to 20 maunds throughout, of maize from 7 and 6 maunds to 10 in the Kalrathi and Bar circles, of chahi cotton from 3\frac{3}{4} and 3\frac{1}{4} to 4 and 5 maunds respectively in the Gasrah and Bar circles. Nahri cotton in the latter was taken at 4 maunds. The rate of chahi wheat was raised from 9\frac{1}{4}, 8\frac{1}{2} and 7\frac{1}{2} to 10, 9 and 10 maunds respectively for the Rohi, Gasrah and Bar circles, and of barani wheat from 4 to 5 maunds in all the circles except the Gasrah. Barley was taken at a lower rate by Mr. Walker and has been raised to the wheat figures in all circles. Gram was raised from 4 to 6 maunds in the Gasrah and from 6 to 8 in all the remaining circles.

For toria Mr. Walker took 2 maunds throughout. I raised to 5 in the Bar, 4 for chahi in the remaining circles and 3 for barani for all circles.

57. The area cultivated by tenants-at-will under different kinds of rents will be clear from the following, the figures being percentages on cultivated area:—

		Colti	V	CULTI	VATED CCU-		Br	TENANT	B-AT•W	ILL PAY	ING BE	NTS.	
	·	BY OW		PANC NANTS	K TE.	K	ind.	Ca	ish.		d kind	Z't	tal.
Tansil.	Circle.	Last Settlement.	Now.	Last Settlement.	Now.	Last Settlement,	Now.	Last Settlement,	Now.	Last Settlement,	Now.	Last Settlement.	Now
WAZIB.	Charkhari Bangar Chenab	42.5 48 60	89 43 48	17.5 12 11.5	10 7 8	7 6 16 5	11 19 24	12·5 23 16	14 20 13	20·5 11 6	26 11	40 40 88:5	51 50 44
GUJBAN- WALA.	Charkhari Bangar Bar Tahsil	42	\$2 42 43 38		8 8 7 8		13 23 30 20	 23	16 14 18 16	18	81 13 2 18	 52	60 50 60 54
SHARAQ. PUB,	Rohi	47 52 48 52	48 45 84 25	5 1 6	8 4 10 1	13 36 32 21	25 45 47 67	85 11 14 25	16 4 5 7	***	8 •2 4 	48 47 46 46	49 51 56 74

The facts deserving note are the decrease in area cultivated by owners, due to grant of lands in the colonies, the increase in area under kind rents and decrease in that under cash rents, mostly due to extension of unirrigated cultivation and an increase in lands paying mixed cash and grain rents, which are in favour for well lands and give the most important assessment basis for the two Charkhari circles.

58. The average rates of kind rents are summarized below in percentkind rents.

				Спл	AUI,	Nar	IRI.	Untert	GATED.	Tor	AL.
Tsheil.		Circle.		Last Settlement.	Моч.	Last Settlement.	Now.	Last Settlement.	Now.	Last Settlement,	Now.
	Charkhari	***	•••	***	87	111			35	39	37
WAZTE- ABAD.	Bangar	***		***	33	• • • •	***		33	36	83
	Chenab	•••	•••	•••	37	•••			37	37	37
*	Charkhari	*10			33	***		111	34	83	34
GUJBAN. Wala.	Bangar	***	•••		31	144	•••		31	29	31
5	Bar			,,,	26		•••		3 0	25.5	29.5
	Rohi	•••	•	25	25	,	***	26	80		
4D4	Kalrathi	•••	•••	23	23		25	25	30		2 • •
Зилвадров.	Gasrah	***	•••	30	30		•••	46	46		
S	Bar	***	<u></u>	19	23	•••	34	20	30		.,,

There is a falling off in the Wazirabad Charkhari and Bangar, no change in the Chenab and Gasrah circle and a rise elsewhere. The falling off in the former is due to the fact that at the last settlement there was a great demand for land, whereas now there is a demand for tenants.

In the Wazirabad and Gujranwala Tahsils straw is seldom divided, but chari and turnips are.

In Sharaqpur no straw is taken on chahi and abi crops, but is taken in case of nahri, sailab and barani crops.

The state of the common heap are the potter, carpenter and blacksmith. In some villages barbers, mochis and sweepers are also paid, but either for personal services or for labour which the owners or tenants are too lazy to perform. Accordingly in calculating the net share of the produce the landlords receive, deductions were made only for the three menials mentioned above.

The rates and calculations are given in the assessment reports. The deductions made are much less than those at last settlement.

Kind half assets.

Kind half assets.

Kind half assets.

Results of the five years ending 1909-10.

The nature of the different harvests are described in the assessment reports. It was held by the Financial Commissioner that for the Wazirabad and Gujranwala tahsils this cycle was below normal, as it included the very bad years of 1906-07 and 1907-08, and he revised the figures by excluding these years and taking the remaining three only. For Sharaqpur Tahsil the cycle was accepted as normal.

As a good deal of barani crops are sown on chahi and other lands in good years, the kind rates could not be worked out on cultivated lands, and had to be shown on sown lands. These rates accordingly are not soil rates.

The results are—

1		2	 -		3			4			5			8		3	7		8	9	10	-	11		12
	•						RAT	EF O	N F	ow:		BEA	THE		示	Giller To	on.	Teac + 10 17	ets.	ssets as re-	HALP N OF SETIL	LAS	T		п 9 са 10.
Talisi).		Circle.	-		Chah: and Abi.			Darani.			Sallab.	7,281,000		Nahri.			Rate on cultivation.	-	Total half net assets.	Total half net assets vised by Financial missioner.	Amount,		Rate		Incress of column 8 on 10.
				Re.	A.	P.	Rs.	Λ.	P.	Rы.	Α.	P.	Rs.	A.	Р,	Rs.	Α.	P.	Re.	Rs.	Rs.	Rs.	. A.	P.	
ي .	Charkhari	i	•••	3	0	11	1	0	7	! !	,					2	9	0	1,84,594	2,09,333	1,73,516	2	5	9	6
2769	Bangar	*1*	**1	2	9	7	1	1	ħ							1	11	1	91,604	98,004	83,518	1	. 7	в	10
WAZIBADAD.	Chenab	***	***	2	11	10	0	14	9	1	В	0	1	٠		1	16	2	65,072	75,544	68,003	1	12	0	12
		Tahsil	•••		***						***								3,41,270	3,82,861	3,15,129				9
	Charkhar	i ,,,	***	3	0	8	ı	6	1		***				-	2	3	4	2,85,945	2,99,401	2,00,000	1	. 8	1	43
1	Bangar	***	•••	2	14	1	1	4	ŧ		***			***		1	12	0	2,05,047	2,33,119	1,22,500	1	. с	9	67
Green was and	Bar	***	•••	2	5	9	1	2	10		***			• • •		1	4	6	79,654	87,944	48,500	0	13	1	64
Ğ		Tahail	·	_							***								5,70,648	8,09,464	3,71,000		441		E4
	,									ł	bi.														
	Rohi	***	***	1	15		1	9	4	2	В	5		***				7	1,01,770	·	50,243	1		10	102
Present Comme	Kalrathi	***	•••	1		8	1		6		•••			•4•				10	74,278	•••	30,209	0	•		146
97.5	Gasrah	***	344	2		-	1 -	10	0	2	3	11		•••				4	62,720	***	34,849	1	. 3		60
å	Par	***	144	1	10	0	1	9	4		***		2	11	1	2	2	1	1,29,856	***	4,555	0	6	5	2,751
		Tahsil	7.														**1		3,68,621		1,19,856		**		203

61. The importance of cash and mixed cash and grain rents especially in the Wazirabad and Gujranwala Tahsils, is clear from the statement in paragraph

57 and the subject has been treated in detail in the assessment reports. Enquiries show that these rents are generally realized in full. The mixed rents are most common on wells in the Charkhari circles and cash rents prevail in the Bangar circles and on barani lands elsewhere. In the Chenab circle they are paid mostly on the valuable wells near towns and are consequently too high to be used for the circle.

The results compare as follows with those of last settlement, and have been worked out on cultivated area:—

						CASH BE	n Te			м	IX	D OJ	ARE AND	G B.	lig i	ENTO.
Tahsil,	Circle.		I.a Settle		nt.	No	₩.		Incresse per cent.	T.a Settle	et met	nt.	No	w.		Increase per cent.
P			Ra.	Δ.	P.	Ra.	Δ.	P,		Re.	Ā.	F.	Rs.	<u>.</u>	P.	
BAD.	Charkhari		8	7	4	4	Q	0	16	4	18	0	ō	3	2	8
Wazirabad.	Baugar		2	1	0	8	4	4	4 9	8	2	0	4	9	2	48
W.A.	Chenao	•••	8	3	4	Б	7	Ü	69	4	8	0	5	9	o	24
ATA.	Charkhari	_	2	10	8	8	14	8	48	2	15	0	8	15	6	45
IAN W	Rungar		1	12	6	2	10	7	49	3	9	0	8	12	7	45
Gojaah wala.	Bar		I	٤	0	2	8	3	47	1	8	0	8	5	5	128
ei.	Rohi		2	4	2	2	12	0	22	•••			3	9	5	\$ th
D d	Kalrathi		1	4	11	1	14	0.	48	•••			1	10	10	
Sharaqpub.	Gasrah		· 2	1	10	2	18	9	85	•••		1	4	4	3	•••
Ø.	Bar		1	5	7	127	6	0	224	•••	,		•••			***

There has been a substantial rise in all circles except the Wazirabad Charkharit which was highly developed at last settlement.

In the Sharakpur Bar Circle the cash rents are chiefly on nahri land which did not exist at last settlement.

62. The kind, cash and mixed half assets rates compare as follows:—Kind and cash rents compared.

Taisil.		Circ	le.		Kind half assets rates on sown ares.		Cash rates on unitivated area,	Alixed cush and grain rates on cultivated ares.
ė			-		Rs. A. F	, -	Bs. A. P.	Bs. A. P.
TET I	Charkinri	•••	•••	•••	2 9	0	200	2 9 7
Wastraddo.	Bangar	•••	•••		1 11	1	1 10 2	2 4 7
 	Chenab	***	• • •		1 1.6	2	2 11 6	2 19 6
	Charkhari	***			2 3	6	1 15 3	1 15 9
GCTBAK. WALA.	Bangar	***	•••		1 12	0	159	1 14 8
ĕ	Bar	•••	•••		1.4	8	1 1 7	1 10 8
	Robi	•••	***		1 12 3	7	1 6 0	1 12 8
E.	Kalrathi	•••	•••		1 3 10		0 15 0	0 13 6
SKARLQFUR.	Gaerah		•••		1 14		1 6 10	2 2 1
S	Bar	•••	•••		2 2 1		2 3 0	*** ***

63. The assessment report for the Wazirabad tahsil was submitted in 1910 and orders thereon received in July 1911. The reports on Gujranwala and Sharaqpur were sent up during 1911, orders on the former were received in June 1912 and those on Sharakpur in August 1912. When working out village assessments it was found that the results of the new survey for estates completed by then showed considerable differences in classes of cultivated area. Lands which were shown as chahi had become barani and in some cases waste. Wells which were unfit for use and non-existent for years were still shown as fit for use, and their abianas had not been remitted. It was therefore considered unsafe to work on the old figures and it was decided to wait until

The following alteration had to be made in the sanctioned rates in order to bring out the sanctioned demand:—

the new statistics were available for all estates, which was in September

1912.

Tahsil.	Circle.	Class of land.	Sanctioned rates.	Rates Mopted.
<u> </u>			Bs. A. P.	Rg. A. P.
	Charkhari	Chali was	2 0 0 1 4 0	2 1 6 1 4 0
ABAD.	Bangar	Chahi	160	1 8 0
Waerrabad.		Chahi	0 15 0 2 1 0	100
	Chenab	Saileb	1 2 0	1 4 0 1 0 0
<u></u>		Barani सुद्धानि जपने "		
7.1.	Charkhari	Chahi Barani	1 12 0 1 0 0	1 14 0 1 0 0
G CTBANWALL.	Bangar	Chabi	1 4 0	1 5 0
ē		Rarani	100	1 0 0

No alteration was needed in the Sharaqpur tahsil. Soil rates tend to give a relatively higher assessment in inferior estates where the area of matured crops is a smaller percentage as compared with those in which there is intensive cultivation and a large amount of double-cropping. Accordingly crop rates were worked out for each estate and applied to the matured areas of the five years, and the new demands were mostly based on these, modified by soil rates and other considerations, the chief one being the rent rates and size of holdings. The village assessments were worked out and appounced from October 1912 to January 1913.

- 64. The system of assessment sanctioned for the Wazirabad tahsil is wazirabad tahsil ugstem of assessment.
 - (a) In the Charkhari circle fixed assessments have been maintained as before, but lands which may get canal irrigation from the Upper Chenab Canal will pay at the village nahri rate per acre sown in the harvest, and this demand will be in addition to the fixed demand.

- (b) In the Bangar circle the estates which get irrigation from the Lower Chenab Canal and those which have become seriously waterlogged have been put under entire fluctuation, with separate rates for nahri, chahi and barani crops charged on matured areas. In the remaining estates the system is the same as described in paragraph (a). Out of the 85 estates 11 are under fluctuation.
- (c) For the Chenab circle entire fluctuation was recommended, but was sanctioned only for those estates below the Khanki Weir which really required it. It was laid down that if any estates above the weir required it hereafter, it could be introduced with the Financial Commissioner's sanction.

For fluctuating assessment each village was given separate rates for chahi, sailab 1st class, sailab 2nd class and barani to be charged on matured crops.

When announcing the assessments only 18 estates below the Khanki Weir elected for fluctuation, and fixed demands were maintained in all the rest

Canal irrigation from the Upper Chemab Canal will be for kharif only and limited to waste lands and will be under fluctuation all over, being assessed at the village nahri rate on sown area.

65. The rates and total demand proposed, sanctioned and actually imposed are given below:—

Cirole.	Class of laud.	Proposed.	Sanctioned.	Annonneed.	De ma nd of 1909-10,	Increase per cent.
and the second s		Rs. A. F.	Ka. A.P.	Rs. A. P.	Rs. A. P.	
1	Chahi	2 0 0	2800			
harkhari	Barani	140	140			
	Demand	1,39,547	1,37,500	1,37,520	1,20,942	1
1	Chahi	190	100			
tayua	Barani	100	0 15 0			
	Deman 1	76,414	70,600	69,953	56,214	
<u> </u>	Chahi	2 4 0	210			
	Sailab I	1 12 0	, , , ,			į
henab	Sailab II	1 4 0	1 2 0			
	Berani	100	100			
1	Demaud	49,392	62,196	52,275	45,916	}

The rates proposed for the Chenab circle were for fluctuation, those sanctioned are for fixed demand. For fluctuation the proposed rates were sanctioned except sails II which was lowered to Re. 1.

Of the demand of Rs. 69,953 announced in the Bangar circle, Rs. 65,362 is fixed and Rs. 4,591 estimated average in the estates under fluctuation. These figures do not include the assessment of canal irrigation from the Lower Chenab Canal which was disposed of in 1906 with the Hafizahad settlement. Of the demand announced for the Chenab circle Rs. 46,709 is fixed, and the rest is the estimated average assessment in the 17 estates under fluctuation

which are all inferior ones. The village fluctuating rates announced for non-canal crops classify as below:—

		C	hahi,		Sailab I.		Sailab II and barani.			
		Ra. 2-0-0.	Rs. 1-8-0.	Re. 1-12-0.	Rs. 1-8-0,	Re. 1-4-0.	Re. 1-4-0.	Rs. 1-2-0.	Re. 1-0-0.	
Chenab circle	,,,	8	7	1	10	8	3	8	0	
			C	babi.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Ba	rani.	·	
		·	Re.	Rs.	Rs.	Ra.	Re.	Re.	Rs.	
Baugar Circle	414		1-8-0.	1-4-0.	1-0-0.	1-4-0.	1-0-0.	0-14-0,	- 0-12-0.	
	•••	***	6	4	1	1	6	3	1	

The new demand represents 75, 73 and 70 per cent., respectively. of the half assets accepted by the Financial Commissioner.

66. The average rate sanctioned for this tabil for assessment of irricant rates, Wasirabad Tahsil. gation from the Upper Chenab Canal is Rs. 2-4-0 per acre sown.

As this irrigation will be confined to waste lands it was not easy to differentiate from village to village. In the majority Rs. 2-4-0 was announced, in a few where the waste was above average Rs. 2-8-0 was given out, and in some with inferior kalrathi or sandy waste rates of Re. 1-8-0, Re. 1-12-0 and Rs. 2 were given out. These rates therefore vary from Re. 1-8-0 to Rs. 2-8-0 per acre as below:—

Number of estates in which rates are :--

Circle.		Ra.	R3.	Rs.	$\mathbf{R}_{\mathbf{s}}$.	Rs.
	5	¥-8-0,	2.4-0.	2-()-().	1-12-0.	1-8-0.
Charkhari	•••	8	86	10	11	1
Bangar	•••	3	27	15	6	5
Chenab	•••	Not.	16	5	Nil.	Nol.

Preliminary waterings for rabi will be assessed to occupier's rate only in the whole tract.

67. In the Gujranwala tabsil there are estates belonging to all three zones (paragraph 9), and the system of assessment sanctioned for C zone is the same as described in paragraph 64 (a).

For estates of the B zone, the assessments on wells are fixed (covering all chahi crops on the well) the rest fluctuating. In the A zone all the assessments are fluctuating.

The number of estates in each zone is—

		A.	\mathbf{B}_{ullet}	C.
Charkhari	•••	44	13	145
Bangar	•••	97	13	58
Bar	***	74	Nel	Nil
		********	-	***************************************
Total	•••	.215	26	200
		wan.		· · · · · · · · · · · · · · · · · · ·

68. The rates and demand proposed and sanctioned for the Gujranwala Gujranwala Tabeil assessment.

Circle.				ļ	Рвог	CSED.	Sanctioned.			
		Class		and.	Fixed.	Fluctuating.	Fixed.	Fluctating.		
					Rs. A, P.	Rg. A. P.	Re, A. P.	Ra. A. P.		
		,	Chahi		1 12 0	200	1 12 0	2 4 0		
Charkhari	•••	}	Bereni		1 0 0	1 0 0	1 0 0	1 4 0		
		ſ	Total	Rs.	2,04,8	300	2,04,	800		
		į	Chahi		1 6 0	1 8 0	1 4 0	1 8 0		
Banger	•••	∤	Barani		0 15 0	1 6 0	1 0 0	140		
		Ĺ	Total	Rs.	1,39,8	662	1,85,	000		
			Chahi		1 2 0	1 4 0	[1 4 0		
Bar	•••		Barani		0 12 0	1 0 0		1 4 0		
		l	Total	Rs.	55,6	600	60,	000		

This demand represents 77 and 66 per cent. of the half assets as estimated by the Financial Commissioner for the Charkhari and Bangar circles.

The demands announced in C zone estates of the Charkhari and Bangar circles are as follows:—

				स्यमेव	ग्यते गयते	Demand of 1909-10.	New demand.	Increase per cent
						Rs.	Ra,	
Charkhari	•••	***	•••	•••		1,15,487	1,42,550	23
Bangar	***	•••	•••	,		33,763	42,340	25

Rupees 200 are deferred in the Bangar for 5 years. The sanctioned increases for these circles are $21\frac{1}{2}$ and 25 per cent. The excess in the Charkhari circle is due to the towns of Guiranwala and Eminabad being in the C zone. The fixed *chahi* assessments given out in estates of the B zone are Rs. 6,605 for the Charkhari, Rs. 6,400 for the Bangar and the fluctuating village *barani* rates worked out on the matured areas of the five years adopted for assessment purposes give average circle rates of Re. 1-3-9 for both circles.

The village chahi and barani rates announced for estates in the A zone give average circle rates as under:---

		-			Chahi.	Barani,
					Rs. A. P.	Re. A. P.
Charakhari	***		•••	•••	 2 4 6	1 4 2
Bangar		•••		•••	 1 8 0	140
Bar	•••			•••	 1 5 0	144

			Chahi,										
		Rs. 3-0-0.	Re. 2-8-0,	Rs. 2-4-0.	Rs. 2-0-0.	Rs.,	Rs. 1-8-0,	Rs. 1-6-0.	Rs. 1•4-0.	Rs. 1-2-0.	Rs.	Rs. 0-12-0.	
Oharkhari		1	7	14	13	·	1	l	<u></u>		<u> </u>		
Bangar _e		***	}			18	49	1	37	· · · ·	2		
Rar			ł	J		ł	7	14	43	5	3		
							Barani.						
Charkhari		•••		} ,	} <i></i>		2	3	39	5	j 8		
Bangar]	•					9	7	65	8	20	1	
Bar		•••					6	12	88	10	7		
_	. (!	i i				ł]		

The results may be summarized as follows:-

		Charkhari.	Bangar.	Bar.
	COREN	Rs.	Rs.	Rs.
Fixed assessment in C zone	ANGELER	1,42,550	42,340	Nil.
Fixed chatti in B zone		8,005	6,400	Nil.
Average fluctuating assessment worked out on fi 1909-10.	ive years 1904-05 to	50,533	76,474	56,292
	Total	2,01,088	1,25,214	56,298

This demand falls short of that approved by the Financial Commissioner in each circle, and this is due to the estimated fluctuating assessment being worked out on matured crops of five years ending 1909-10, which was characterized as below average. The Financial Commissioner based his figures on the three years 1905-06, 1908-09 and 1909-10. Compiling of figures for these years by zones for each assessment circle would have involved considerable labour for which the staff had no time. In addition to the above, Rs. 844 have been assessed on 72 acres of land in Gujranwala town which came under houses and factories &c., after the last settlement.

69. The average rate sanctioned for assessment of land irrigated from the Upper Chenab Canal for all three circles of this tahsil is also Rs. 2-4-0 per acre sown, with minimum of Re. 1-8-0 in all circles and maximum of Rs. 3 in the Charkhari and Rs. 2-8-0 in the Bangar and Bar circles. The village rates announced are multiples of four annas and classify as follows:—

	Circle.		Number of estates with rates of							
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Ra.		
		3-0-0.	2-12-0.	2-8-0.	2-4-0.	2-0-0.	1-12-5	1.8.0.		
Charkhari	•••	 1	7	23	123	23	10	15		
Bangar	•••	 Nil.	NII.	13	96	24	16	16		
Bar	***	 Nil.	Nil.	12	46	9	2	4		

70. In the Sharaqpur tahsil all estates getting perennial irrigation from the canal, whether in the A or B zones have been put under entire fluctuation. All estates in the C zone in the Khadar and in northern Bangar circles have the same system as similar estates in the other tahsils, viz., fixed demand, plus a fluctuating assessment on canal irrigated crops.

For the Eastern Bangar circle although in the C zone, entire fluctuation was sanctioned on the ground that the Deg embankment will cause cessation of all floods in the nullahs on which the agriculture of this circle mainly depends (even the wells being aided by such floods) and past conditions will entirely change and no fixed assessments could be framed with any confidence.

At the time of announcements however the owners of several estates pressed for a fixed demand, and wherever the records showed that *nullah* floods were unimportant or did not exist at all, fixed assessments were maintained.

The results by assessment circles are-

					NUMBER OF ESTATES IN ZONE.								
		Circle.			Δ	В	C (fixed).	C (fluctusting).					
Rohi		***	•••		21	37	81	ð					
Kalrathi	•••	***	•.•	A	2	5 2	44	56					
Gasralı	•••	•	•••	4	Nil	Nil	60	Nil.					
Bar	•••				48	Nil	Nil	Nil.					

71. The rates and demand proposed and sanctioned for the Sharaqpur tahsil are—

	Circle.				PROPOSED BATES.				SANCTIONED.							
			Class of land	Class of land.		Fixed.		Fluctuating.		Fixed.			Fluctuating.			uating.
				—— ··	Rs. A	. P.	Rs.	Λ.	Р.	Rs.	A.	Р.	Rs.	Λ.	Р.	
		(Chahi		1	3 O	1	12	0	1	в	0	1	12	0	
Rohi		J	Abi		1 1	2 0	2	4	0	1	12	0	2	4	0	
]	Baran:		1	0 0	1	4	0	1	0	Ü	1	4	0	
		į	Total cemand,	Rs.		7 5,	860			İ		75,	860			
		ſ	Chahi and ahi		1	0 0	1	10	0	1	O	0	1	10	0	
Kalrathi .	•••	∤	Barani and sails	ab	0 1	2 ()	1	2	0	0	12	0	1	2	O	
		L	Total demand,	Rs.		55,	C00					55,	000			
		(Chabi		1	6 0	Ni	ı		1	в	0		Nil.		
Gasrah	•••	₹	Baran:		1	0 0	Ni.	l		1	0	0		Nil.		
		Į	Demand,	Rs.		41,	000					4 2,	500			
		ſ					1		_				73	12	0	for colonies.
)	Nahri	•••	***		2	12	0		•••		32	8	0	for rest.
Bar	***	{	Chahi		•••		1	2	0				1	4	0	
			Baran				i 0	12	0				0	12	0	
		Ĺ	Demand,	Ra.		97,	740									

The sanctioned rates represent 75, 69, 68 and 75 per cent. of the half assets and give increases of 37, 42, 24 and 127 per cent. respectively over the demand for 1909, 10. The fixed assessments announced are given below—

		Circle.				Demand of 1909-10.	New demand.	Increase per cent.		
						Ra,	Rs.			
Rohi	•••		•••	•••		34,557	47,943	39		
Kaltathi	•••	•••	•••	•••	•••	10,445	15,185	45		
Gasrah	•••	***	***	•••		33,812	41,617	23		

The following amounts have been deferred for five years:-

Rohi 1,826
Kalrathi 515
Gasrah 110

In the Gasrah circle Rs. 285 had to be reduced on account of land coming under the Deg embankment.

The fluctuating non-canal rates announced classify as follows:—

Cirele.		Number of metates with rates of													
		Rs.	Rs. I-10-0.	Bs.	Rs. 1-6-0.	Rs. 1-4-0.	Rs. 1-2-0.	Rs. 1-0-0.	Rs. 0-14-0.	Rs. 0-12-0,	Rs. 0-10-0.	Ra.			
<u></u>				<u>'</u>	-		Chahi.	!	<u>!</u>	'	L	<u>!</u>			
Вођі		39		17	1		1 6	1	1	f	1				
(alrathi	-	46	24	21	4.3	- 6	555			•••		•••			
38T	•••	•••	•••		(iii)	27	E S	8			,				
	į				27	त्यमेव ज	Barani.								
iohi		***		1 3	•••	48	3	11	1	'	ı				
alrathi		•••				81	37	23	3	7					
				1			!	ì	i	i	i	í			

The application of these rates to the matured areas of the five years ending 1909-10 gives the following results:—

Rs.
Rohi 27,867
Kalrathi 39,268
Bar 11,765

The nahri rates sanctioned for this tahsil are—

		Circ	Average.		Maximum.			Minimum.					
			. <u></u>	·		Rs. A. 1	P.	Be.	A.	P.	Rs.	 A.	P.
Rohi .	•••	•••	•••			2 4	0	2	8	0	1	8	0
Kalrathi	•••	•••	•••	•••		2 0	0	2	8	0	1	8	0
Gasrah	•••		•••	•••		2 0	0	2	8	o	1	8	0
Bar circle, old e	states	***	•••	•••		2 8	0	4	8	0	1	8	0
Ditto, new e	states	•••		•••	•••	3 12	0	4	8	0	1	8	0

There is a good deal of canal irrigation by lift in this tabsil on the Lower Chenab Canal, and the rates sanctioned for this are ten annas per rupee of the flow rate of the estate, but in no case to be below the *chahi* rate of the estate.

The village rates announced are as follows:-

			Numbre of metatre with bathe of										
Ciro	le.		Ha. 4-8-0.	Rs. 4-0-0,	Rs. 3-8-0.	Rs. 3-0-0,	Rs. 2-12-0.	Rs. 2-8-0.	Rs. 3-4-0.	Hs. 2-0-0.	Rs.	Ba. 1-3-0.	
Bohi								81	81	18	10	5	
Kalrathi	•••	•••	***	•••	•••• •••		***	11	83	54	37	19	
Gastah				•••					•	40	11	7	
Bar old estates	•••	•••				5	3	17	5	8		3	
Bar colonies	•=		3	2	3	3						·	

The application of these rates in estates which get irrigation from the Lower Chenab Canal to sown areas of five years ending 1909-10 gives the following results:—

						Average demand,	Incidence.
						Re.	Ra. A. P.
Old estates	•••		***	•••	•••	 75,768	287
New chahs.	•••	***	***	•••	energy.	 28,278	8 12 5

The results for the tahsil are-

		Circle.			Fixed.	Fluctuating.	Total.	Estimated by Financial Com- missioner.	
				en i	Rs.	Rø.	Rs.	Ra.	
Rohi	•••	•••	•••		47,948	27,867	75,810	75,860	
Kalrathi	***	•••	• • •	W.	15,185	39,268	54,453	₽ 5,000	
Gastah	•••	***	•••		41,617		41,617	42,500	
Bar	•••	•••	***		••	1,15,801	1,15,801	1,17,596	

The difference in the Bar circle is due to adoption of different figures, my estimate being based on sown areas supplied by the Irrigation Department.

Results of re-assessment.

72. The results of the re-assessment are—

							INCE	EASE
Tabail.		Demand of 1909-10,	Sanctioned demand.	Estimated and actually announced.	Estimated in forecast report.	Total.	Per cent.	
·		<u> </u>	Re	Ra.	Re.	Rs,	Rs.	Ba.
Wasirabad	•	•••	2,23,(72	2,59 ,196	2,59,748	2,86,826	86,676	16
Gujranwala	***	•••	8,19,764	3,99,800	3,82,595	8,91,957	62,831	20
Sharaqpur	***	***	1,72,880	2,90,956 (estimated),	2,87,681	2.45,837	1,14,801	66
	Total	***	7,15,716	9,49,952	9,30,024	9,24,620	2,14 308	•••

The difference in the figures of columns 3 and 4 for Gujranwala and Sharaqpur has already been explained in paragraphs 68 and 71.

78. Nahri rates were also fixed and announced for those estates of the Hafizabad and Khangah Dogran tahsils Dogran.

Canal rates in tabelle Hafizabad and Khangah Which will get irrigation from the Upper Chenab Canal. The average rate sanc-

tioned was Rs. 2. The village rates announced are-

	Rat	e.			Nui	nber of estates.
Rs.	A.	P.				
2	8	0	•••	•••	••	13
2	4	0	•••	•••	•••	6
2	û	0	•••	•••	•••	28
1	12	0	•••	•••	•••	12
1	8	0	***	•••	•••	9

7.1. One hundred and eleven estates filed objections to the assessment announced. In 13 these were accepted and some modification made. The rest were rejected.

Twenty-three of the latter appealed to the Commissioner and the appeals were all rejected.

- 75. The orders regarding agency for assessing fluctuating revenue are that in estates getting perennial irrigation from the canal this work will be done by the canal staff and in all others including estates with canal irrigation for *kharif* only all assessment including the canal rates will be made by the district staff.
- 76. There has been a substantial decrease in cesses from about 21 per cent. at last settlement to $13\frac{1}{3}$ per cent. now. This is due to the abolition of patwar cess (5 per cent.), ala lambardari cess (1 per cent.) and reduction of one-fifth in the local rate. The cesses now payable are—

Rs. A. P.

1.ocal rate ... 8 5 5 per cent.

Lambardari ... 5 0 0 ,,

77. Protective leases for 20 years have been given for all wells constructed after the last settlement and for varying periods not exceeding 10 years for repaired ones. The number of new wells sunk is about three thousand.

In estates where well irrigated crops are under fluctuation those irrigated from protected wells will be assessed at the barani rate. In others the well abiana has been fixed for each well and entered in the distribution file and famabandi, and this will be remitted during the term of the certificate. This lump sum will also be remitted when the well becomes unfit for use or goes out of use through desertion of tenants or other causes beyond the control of the owners.

78. At the last settlement the amounts payable at each harvest were not proportioned to the crops as the owners did not agree to any change (paragraph 161 of Gujranwala and 112 of Lahore settlement report). A much larger proportion was payable for the kharif than could be justified by the area under that harvest. Since then the area of rabi crops has increased considerably all over and the owners agreed to change the instalments. In the majority of estates one-third for kharif and two-thirds for rabi has been accepted. In some where kharif cropping is nominal the instalment for that harvest has been made one-fourth and rabi three-fourth. The old rates of half and half or kharif two-fifths and rabi three-fifths have only been retained in estates where a good deal of rice is grown, or where the owners are wealthy or in towns where garden cultivation is extensive.

79. The dates for payment of the instalments were—

			<u> </u>			Kharif.		Rabi:
Gujranwala	•••			<u></u> .	≺	15th December	***	} 25th June.
Wazirabad	•••			•••		Ditto	•••	1st July.
Sharaqpur	•••	•••	•••			Ditto	•••	15th June. 15th July,

When announcing the new demands the owners were consulted, and the unanimous opinion was that payment in two instalments was not convenient and caused confusion of accounts, double burden and expense. With the concurrence of owners single instalments payable on 1st July and 1st February were recommended and sanctioned by the Financial Commissioner.

80. The new assessments were brought into force as follows:—
Term of settlement.

Wazirabad Chenab Circle	•••	•••	Kharif	1912.
Do. Charkhari and Banga	r	•••	Do.	1914.
Gujranwala Tahsil			Do.	1912.
Sharaqpur Tahsil			Rabi	1913.

The term for which this settlement will be in force has to be decided now. No announcement was made to the people, nor was it discussed in the assessment reports, except that for the Eastern Bangar circle of the Sharaqpur tahsil the Financial Commissioner suggested ten years and for the colony chaks the same period as for the Gugera Branch circle, II (paragraph 38 of Financial Commissioner's orders on Sharaqpur report), and for the Gujranwala Tahsil paragraph 7 of the Government orders contemplates a short term. For the rest of the tract the following points deserve consideration:—

- (a) Conditions are undergoing a radical change.
- (b) Estates in A and B zones are fully provided for any changes which may take place.
- (c) Estates in C zone which will get no canal irrigation are highly developed ones with the best well cultivation and are fully assessed. The attraction of canal irrigation elsewhere is likely to draw away tenants and reduce their resources. In the Sharaqpur tahsil provision has been made for introduction of fluctuation in such estates if necessary by paragraph 4 of the orders of Government on the assessment report, but no such provision has been made in the remaining tahsils although it was recommended.
- (d) Fairly full rates have been fixed for canal irrigation in all estates.
- (e) The next revision of assessment in this tract should not require any re-survey, and if the records are kept up-to-date should cause no harassment.
- (f) It is understood that the partition of the Gujranwala district has been decided upon, and both districts to be made out of it will contain portions of this tract as well as of the Hafizabad and Khangah Dogran tahsils, the term of settlement whereof will expire in 1924-25.

As I do not know the details of the proposed partition of the district, leaving this out of consideration my opinion is that the term should be for twenty

years, but it should be laid down that if any of the estates mentioned in clause (c) show substantial reduction in sources relief should be granted to them within the sanctioned term either by introduction of fluctuation or by lowering of the fixed demand.

CHAPTER V.—Distribution of Assessments.

- 81. At the last settlement the distribution of the demand over holdings was made by one of the following methods:—
 - (a) All round rate on cultivation.
 - (b) Proportional rates for different classes of land.
 - (c) A fixed lump sum on wells, classified into grades according to their quality and the rest by an all-round rate on cultivation.

When inspecting estates and studying the condition of different wells, I found that often the demand pressed heavily on inferior wells and was very light on the rich highly rented ones. This is bound to be the case if distribution is based on cultivated area, as wells with inferior soil have much larger cultivated areas in proportion to cropping than the good ones in which cropping often exceeds cultivation. The imposition of higher lump sums as abianas did something to reduce this inequality, but this was inadequate. For instance, it was found that a well paying a cash rent of Rs. 80 was assessed at Rs. 86 and another paying over Rs. 600 at Rs. 80.

82. It was accordingly decided to assess each well and unattached plot on its resources. A statement was prepared for every estate showing for each such well or plot the total area, cultivated area with details of classes, the matured average chahi and other crops raised on the plot during the last five years, the cash rent paid, or rate of division of produce.

On these figures the demand was worked out by rates on cultivation, crop rates on matured areas and cash rent rates or produce net assets rates. After full consideration of these the suggested new demand was entered in pencil and compared with the old demand. The owners were then collected and the entries of the statement were read over and explained to them, and if they proposed any modification with good grounds it was accepted and necessary alteration made. The file was then sent up for orders and the final amounts for each plot were sanctioned by me and then announced.

In the case of estates where cash rents prevailed the distribution was made by a percentage on the rents, for the wells (if any) paying kind rents a produce estimate being worked out.

83. This method involved immense labour for the whole staff, and in the beginning the Tahsildars and Naib Tahsildars could not understand it, and I had to work out the files of a couple of estates in each tahsil myself in the presence of all the officials. After that every one did well. In the case of some weak Naib Tahsildars I had to scrutinize each item and make many alterations, but some of the good ones did the work very well, and very few alterations had to be made.

Of course the new demand could hardly be compared with the old one, and most of the objections to it were on the ground that whereas the demand on the objector's well had been raised 50 per cent. or 100 per cent. that on some others was not raised at all or raised very little. On the facts being explained, most of the objectors were satisfied. There were 107 formal objections, of which 101 were rejected, and in six cases some modification made. There were only four appeals to the Commissioner of which three were rejected.

To my knowledge the distribution made has given entire satisfaction to the people concerned, and has resulted in the demand for each holding being apportioned to its assets.

- 84. The internal distribution among the sharers of each well or other plot was in most cases made on shares except where the shares in a well cylinder differed from those in the land attached to it. In such cases the lump sum (abiana) put on the well to represent the profits of irrigation (see following paragraph) was divided according to shares in the cylinder and the rest according to area of cultivated land in possession.
- 85. Although abianas have not been generally used for internal distribution they have been fixed by myself for each well for purposes of remission in case of protective certificates or when a well becomes unfit for use. These lump sums represent the protion of the assessment due to well irrigation, and in the majority of cases are based on the difference between the chahi and barani rates.

CHAPTER VI.—Miscellaneous.

86. An enquiry into revenue assignments was made and necessary orders passed in each case. With the complete files prepared at the last settlement containing references to all orders the task was easy.

There were altogether 899 cases, 766 in perpetuity or for maintenance of institutions, &c. and 133 for term of settlement. Of the former 736 have been maintained and 30 valued at Rs. 191 recommended for resumption for breach of conditions. Of the latter 126 with assessment of Rs. 584 were resumed and seven assessed at Rs. 284 recommended for continuation.

The new assessment of the assignments continued cannot be ascertained on account of fluctuating assessments.

87. Canal irrigation just beginning and assessments being fluctuating to such a large extent it is impossible to say what proportion of lands will be canal irrigated and what decreases will

take place in chahi and barani cultivation when the canal is in full working. At the same time it was necessary to decide what share of the fluctuating canal rates should be surrendered to the assignces as laid down in Punjab Government proceedings Revenue and Agriculture Nos. 31-32 for April 1909, and Nos. 8-37 for November 1910.

A general report on this subject was submitted in which it was proposed that three-fourths of such rates should be assumed as canal advantage and realized by Government and one-fourth surrendered to the assignees. Orders were received that the Financial Commissioners required each case to be separately reported and half a dozen of the most important ones were to be submitted at first as typical cases. This was complied with, and these six cases disposed of four-fifths of the assigned revenue. The remaining one-fifth was spread over 70 cases and it was recommended that the orders passed on the former should apply to the latter.

In deference to the criticism of the Commissioner on the first proposal it was suggested in the case of estates in A and B zones that the difference between the nahri and barani rates of each estate should be taken as the canal advantage rate, and in C zone where the assessment on chahi and barani lands is fixed and no barani rate for each estate, three-fourths of the nahri rate should be assumed as canal advantage. I am however of opinion that the original proposal that three-fourths of the nahri rate be taken as canal advantage for all estates in whatever zone they might be is preferable. This can be justified on the ground that the nahri rate is generally double or more as compared with the barani rate, and the former will be charged on area sown, the latter where fluctuating on matured area and where fixed on cultivated area. The matured barani crops do not average more than 75 per cent. of those sown and as a good deal of the lands which will become nahri could never be brought under

barani cultivation, surrendering to the assignees one-fourth of the nahri rate is extremely liberal and gives them much more than they could ever expect without the canal. As far as I am aware this question has not been decided yet.

88. At the present stage no alteration in patwaris' circles or their numbers was found necessary. Canal irrigation will bring large areas of waste under cultivation, and with such a large proportion of fluctuating assessments an increase may become necessary later on. It must be borne in mind that the largest increase in cultivation will be in estates of A and B zones, where all assessment work will be done by canal patwaris. The old grading was—

		Tahsit.			lst grade,	2nd grade.	3rd grade.	Amistants.
Wazirabad	•••	•••	•••	•••	 20	20	20	4
Gujranwala	•••	•4•	•••	•••	 82	33	85	6
Sharakpur	•••	•••	•	•••	 19	3 6	19	6

The new standard grading sanctioned by the Financial Commissioners is-

		TahsiL				let grade.	2nd grade,	8rd grade.	Assistants,
Wazirabad	•••	•••	•••			15	80	15	4
Gujranwala	•••	•••	•••		10	25	50	25	•
Sharakpur			***	141		19	87	18	6

This will be worked up to as vacancies occur in the first grade.

The rates of pay Rs. 14, Rs. 12, Rs. 10 and Rs. 8, respectively, have been maintained. In Sharakpur Tahsil where 1st grade patwaris get Rs. 15 in future they will get Rs. 14, the extra rupee in the case of present incumbents being itreated as personal allowance.

89. The number of field qanungos in each tahsil was:—

						Number of qanungos.	Number of patwaris.	Average per qanungo.
Wazirabad	***	400			***	3	60	20
Gujranwala	•••	•••	•••	•••	•••	4	100	25
Bharaqpur	•••	***	•••	***	***	4	74	181

Mr. (now Sir Michael) O'Dwyer in 1893 recommended the addition of one each in Wazirabad and Gujranwala, and this was supported by the Commissioner and Financial Commissioner but not sanctioned owing to financial exigencies. As supervision work has increased considerably on account of fluctuating assessments in some of the Bangar and Chenab estates of the Wazirabad tahsil and all C zone estates of both tahsils where canal assessments will be made by the revenue staff I repeated the proposal but the addition of one kanungo only for Gujranwala Tahsil has been sanctioned.

90. At the last settlement the number of zails was reduced in Gnjranwala by three and in Wazirabad by six, leaving 17 in the former and 12 in the latter. There has been no change since and none was considered desirable at this settlement, except that in my opinion the small zail of Jaura in Wazirabad when vacant should be absorbed in the adjoinging zails of Gakhar and Dhaunkal. For the Sharakpur tahsil 10 zails were sanctioned in 1898. In 1906 one was added on account of the extension of canal irrigation from the Lower Chenab Canal, so there were 11 zails when this settlement began. These were unwieldy and required re-arrangement, and the considerable increase in cultivation expected from the new Upper Chenab Canal made it desirable to increase their number. They were accordingly reconstituted and one zail added.

The Machrala zail included the new colony estates which are scattered about and it was found necessary to have a separate zaildar for these. It was therefore proposed that this zail should have two zaildars. These proposals were sanctioned by Government. There are now 17 and 12 zails and zaildars in the Gujranvala and Wazirabad Tahsils respectively and 12 zails and 13 zaildars in Sharaqpur.

91. The zaildars in Gujranwala and Wazirabad received one per cent.

Of the revenue demand of their circles, the remuneration varying from Rs. 136 to Rs. 247. In Sharaqpur there were grades of Rs. 240, Rs. 210, Rs. 175 and Rs. 150.

The graded system has now been introduced into all the tahsils with 8 grades of Rs. 300, Rs. 250 and Rs. 200 each.

The distribution is-

						1st grade.	2nd grade.	3rd grade,
Gujranwala	•••	•••	***			5	6	8
Wazirabad	•••	•••	•••	7.41 9	44.L	4	4,	4
Sharaqpur	•••	•••	•••			4	•	6

The total expenditure will be Rs. 10,400 per annum, and will be considerably less than one per cent. of the demand including canal revenue.

The subject of inandars was disposed of before the settlement.

92. At the last settlement all estates in the Wazirabad and Gujranwala

Secure and insecure estates.

Tahsils with chahi areas exceeding 50 per
cent. were declared secure and the rest
insecure. The whole of the Sharaqpur
Tahsil was delcared insecure.

Under this classification the insecure estates were—

		, Tab	sil,	Assessment circle.			Insecure estates.		
					(Charkbari	•••	•••	Nil
Wasirabad	***	•••	•	•••	{	Bangar	•••		5
					l	Chenab Charkhari	***		41
					(Chark hari	***		11
Gujranwala		•••	•••	4.,	}	Baugar	***		54
					l	Bar	***		62
Sharakpur	•••	***	•••	•••	•••	All circles	•••		A1.

Under the system of canal irrigation described in paragraph 9 and assesment given in paragraphs 64, 67 and 70, the insecure estates in the canal commanded tract will become secure. It is difficult to say at present what the

actual state of affairs will be when canal irriagtion is fully developed, but it is estimated that two estates in the Wazirabad Bangar, 7 in Gujranwala Charkhari and 10 in Gujranwala Bangar will remain insecure. It is possible that some of the estates which are secure now on account of well irrigation and which being in the C zone will not get any canal irrigation not having any waste lands, may on account of desertion of tenants and falling out of use of wells become insecure and such will require careful watching on the part of the Collector and where necessary relief will have to be given by reduction of assessment or introduction of fluctuation.

The Chenab Circle of Wazirabad is not commanded by the canal, and will suffer further from the weir at Mirala, when cold weather water is taken off for the Upper Chenab Canal. At the last settlement 26 estates of this circle were declared secure and 41 insecure. There are now 66 estates, of which 32 are above the Khanki Weir and 34 below. Fluctuating assessments were sanctioned for the latter, but only 17 elected for these. Of the rest 14 have chahi areas above 50 per cent. and are secure. This leaves only 8 insecure and these can get fluctuation when necessary. Above the Khanki Weir 11 estates have chahi areas above 50 per cent., and so are secure at present. The rest are insecure, but fluctuation can be introduced at any time with the sanction of the Financial Commissioners. The development of canal irrigation will injuriously affect the Chenab Circle by withdrawing tenants and reducing moisture due to water in the river and the estates under fixed assessment will require careful watching. Introduction of fluctuation will be the best remedy when any relief is required, except in the towns of Wazirabad, Ramnagar and Sodhra:

- 93. The scheme sanctioned for last settlement and printed as an appendix to the settlement report cannot be improved upon. As the prices adopted in this settlement are very moderate compared with the existing pitch, generally no suspension will be needed for any harvest unless the incidence is at least 50 per cent. higher than the settlement incidence. Considerable attention should however be paid to the average size of holdings. In estates with small holdings the owners have very little surplus stock to sell and pay out of. Arrears should not be collected with *kharif* harvest except in estates where there is a substantial amount of rice grown and the incidence of total collections should not exceed 50 per cent. of the settlement incidence.
- Oircle of Wazirabad in which fixed assessment and diluvion.

 Circle of Wazirabad in which fixed assessmentioned at the last settlement and printed as an appendix to the settlement report do not require any change. The only matter for consideration is that the subordinate officials do not observe the spirit of the rules. Newly thrown uplands are generally unculturable sand or rappar. In several estates on account of small holdings owners do not wait until such lands become fit for crops and throw in seed in the hope that some return may be obtained. Very often the crops are miserable, and after some experiment such lands are abandoned, but the assessment ence imposed is not remitted until the land comes under river action again. This should be remedied and in my opinion the spirit of the rules provides for this.
 - 95. Instructions for the guidance of revenue and canal officials for assessment instructions.

 Assessment instructions.

 Sessing fluctuating revenue were drawn up and printed after sanction by the Financial Commissioner.
- 96 Rivaj-i-Am (Code of tribal customs) was prepared for the Gujran-wala district at the last settlement, but no English manual thereof. For Sharaqpur tahsil, i.e., Lahore district an English manual was prepared at the last settlement from the vernacular document prepared in 1868.

In this settlement the code of all the tahsils of the old Gujranwala District (Wazırabad, Gujranwala, Hafizabad and Khangah Dogran) was revised and a new one drawn up for Sharaqpur. This work was all done by Bhai Dalip Singh Extra Assistant Settlement Officer, who assembled the leading men of each tribe at a central place, read over to them the previous answers to each question and noted down their replies. Any alterations made were supported unanimously or by a majority. For the Sharaqpur tahsil the answers to many questions differed from those in the record of 1868 or in the English manual prepared by Mr. Casson Walker.

Mutations supporting customs were collected and have been referred to in tabular form in the English manual prepared from the revised code.

It was found that in some tribes actual practice differs from the recorded customs, but generally the elders were averse to making alterations on the ground that their ancestors were wiser men.

97. The partition work done during this settlement will be seen from the following statement:—

	Year commen	icing.	(Times)		Pending from previous year.	Instituted during the year.	Decided,	
1st October 1909						272	333	127
1st October 1910	•••	•••				478	82	96
1st October 1911	***	•••	•••	WHAT I		464	343	245
1st October 1912	•••	•••	•••	Y	844	553	635	425
1st October 1913	***	•••	•••			763		***

The reasons for leaving such large arrears of this work are three. Firstly, carrying out a partition before killabandi was completely finished in any estate would be labour wasted as the work would have to be remodelled on killas. For this reason partition work was postponed in each estate when killabandi was going on and hardly any was done during the first two years. Secondly, in the third year the staff had heavy work in connection with final ettestations and completion of records and had no time to devote to partition work. Thirdly, the institutions during 1912-13 were double the normal on account of introduction of canal irrigation.

98. According to the forecast the settlement should have been completed in three years at a cost of Rs. pleted in three years at a cost of Rs. 4,00,000. It took four years and one month, being completed on 31st October 1914, and the actual cost was Rs. Rs. 4,35,486, the increase in duration being 36 and in cost 9 per cent. The reasons for delay in completing both records-of rights and assessment work will be apparent from what has been written in Chapters III and IV. To these should be added about 2 months spent on census work, the heavy work in connection with acquisition of land for the canal and its distributaries and the many transfers among Naib Tahsildars which could not be avoided. New men coming from other settlements took 4 to 6 months in becoming familiar with killabandi methods and in the meantime the work lagged behind.

Details of expenditure are given in Appendix C. The increased revenue realized in two years will cover it, Rs. 29,356 being realizable from assignees.

There is an idea that killabandi is very expensive compared with revision of maps. The following statement of the expenditure incurred in some of the

recent settlements for which I have got figures will, I trust, show that such is not the case:—

	Settlement.					Area of district.	Total expenditure.	Expenditure per square mile.
						Square miles.	Ra.	Rs.
Ludhiana	•••	•••	***	•••	•••	1,393	8,77,226	271
R awalpindi	•••	***	•••	•••	***	2,048	6,20,035	303
Delhi	•••	•••	•••	•••	•••	1,270	4,46,898	351
Karnal	•••	***	***	•••	•••	8,124	8,25,895	264
Robtak	•••	•••	•••	•••	•••	1,796	5,75,900	321
Gurdsspur	•••	***	***	••	•••	1,826	8,97,714	382
Gujranwala	•••	•••		•••	•••	2 ,112	4,95,927	235

* Including Rs. 60,441 spent on killabandi before the settlement began.

Considering the saving to Government in future in revision, &c., killabandi must be considered cheap. It gives much trouble to owners at the time, but the saving of trouble, litigation and expenses of revision in the future is realized by them and the results considered very satisfactory.

99. I was in charge of the settlement from its beginning to 17th May
1913 when I was transferred to Muzaffargarh, Bhai Dalip Singh Extra Assistant Settlement Officer remaining in charge in addition to his other duties up to
31st October 1913. He was my assistant throughout, and rendered valuable
assistance in the preparation of the records, partition work, determination of
disprted village boundaries, straightening of boundaries on rectangular lines,
correction of errors in the fixed boundary on the Chenab river and distribution
of assessments. In the towns and important villages the distribution work
was done by him instead of Naib Tahsildars. He revised the village administration paper and drew up the revised code of tribal customs. His honesty and
impartiality inspired confidence, and I am grateful for all he did for me.

I was very fortunate in my tahsildars. M. Jamiat Singh was in charge of the Gujranwala tahsil until his transfer to district work, and his experience of killabandi in the Hafizabad tahsil and honesty were a tower of strength and did much to popularize killabandi.

M. Devi Singh in charge of Wazırabad tahsil and subsequently Gujran-wala Tahsıl, M. Ghulam Muhi-ud-Din in charge of the Sharaqpur tahsil and M. Nasır-ud-Din succeeding M. Devi Singh in Wazirabad, all did excellent work and deserve much credit.

Killabandi entails heavy and arduous work on Naib Tahsildars, and the success or failure thereof depended chiefly on these officers. M. Dhian Singh, M. Muhammad Suleman, P. Ladli Pershad, M. Ganda Singh and M. Mangal Singh came with previous experience, and their work was excellent. Of the new men M. Nasir-ud-din, I, S. Ghulam Ali and M. Jowahar Singh distinguished themselves. They were in charge of difficult circles where in the beginning there was opposition to killabandi, and it is due to their tact and exertions that the opposition was overcome and the work successfully completed. M. Abdul Salam as reader and subsequently as head clerk, and M. Ganda Singh who worked as reader and head clerk at times, rendered invaluable help, and are among the best officials I have come across. Among junior and officiating officers M. Muhammad Khan and Lala Hira Nand distinguished themselves.

100. The first three chapters and a portion of the fourth were written up by the middle of May 1918, when I was in charge of the settlement. The rest could not be taken in hand until the settlement was finished and different references disposed of. The settlement was finished by the end of October, but I was not able to get the files and information on some points till about the end of February 1914. In March and April I could not find time on account of long tours and inspection of revenue work so completed this report

I. C. LALL,

Seitlemeni Officer.

The 29th May 1914.

during May.





महामित जगते

APPENDIX A.

Glossary.

	Vern	acular term.		English meaning.
Abi	•••	***	•••	Irrigated by lift from nullahs, rivers, ponds, &c-
Abiana	•••	•••	•••	Lump assessment on a well.
Bachch	•••	•••	•••	Distribution of revenue over holdings.
Baraui	***	***	•••	Dependent on rain.
Chahi		•••	***	Irrigated from wells.
Gur	•••	•••	•••	Unrefined sugar.
Hasb arazi	***	***	***	According to land owned.
Hasb Jama	•••	***	•••	According to revenue paid.
Hasb rasad khe	wat	•••	***	According to revenue paid.
Jamabandi		•••	•••	Record of owners, tenants and land, &c.
Kalrath;	•••	•••	•••	Sour clay with saltpetre.
Karam	•••	•••	***	A linear measure of 51 feet.
Kharif	• • •	••.	•••	The autumn harvest.
Khatauni	• • •	4 **	***	Record made at survey of fields belonging to a tenant.
Killa	•••	***		A rectangular field.
Killabandi	•••	•••		System of rectangular fields.
Maira	***	***		Sandy loam.
Malikan Qabza	•••	•••		Owners of land in possession only.
Marla	100	***	V 1	An area unit Tooth of an acre.
Missi	•••	***	1111	Loam.
Mochi	•••	•••	100	Shoemaker.
Nahri	•••	•••	(Capacity)	Irrigated from canals.
Naib	***	•••	सन्दर्भ	Assistant.
Nullah	•••	•••	•••	A natural drainage channel.
Patti	***	•••	•••	Sub-division of an estate.
Patwari	•	***	•••	The village official who maintains the records.
Qanungo		•••	•••	A revenue official immediately above the patwari.
Rabi	•••	•••	•••	The spring harvest.
Rappar	•	•••	•••	Inferior sand with superficial clay deposit.
Rohi	•••	•••	***	Sweet clay.
Sailab	•••	***	•••	Inundated from river or nullahs.
Shamlat Deh	•••	• • •	•••	Joint land belonging to all the owners.
Tibba	•••	•••	•••	Sand hills.
Toria	***	•••	•••	An oilseed.
Wajib-ul-arz	iss	***	***	Village administration paper,

APPENDIX B.

Showing ared, crops and assessments.

į		II			
	Now,	.	8,53,748	3, 82, 696	2,87,631
	Last.	B.	2,32,638	3,28,612	1,41,269
Absessere.	Bevised	gg.	1,69,470	9,48,618	1,37,606
	Regular.	ğ	1,67,646	2,32,781	¦ į
	Summary.	g.	3,01,567	2,91,578	\ !
	Population 1911.		:	218,978	182,581
A00355KTF2	Total.	Астея,	181,030	240,573	158,769
Matured chops on weich abbedies? Bared.	Others.	Acres.	\$5.238 200	119,389	74.701
Maturkd CB	Chahi	Acr es .) इ. व जयन	121,173	85,068
12-13).	Total.	Α στο8.	169,665	318,119	213,755
CULTIVATED ABBA (1912-13).	Others.	A 0.7 66.	62,273	157.063	95,3882
CULITY	Chahi,	Acre6.	107,387	161,056	117,873
	Total area (1912-13)		298,889	484,013	671,361
			:	. ;	
	Tabsil		Wazirabad	Gujranwals	Sharakpor

Statement showing expenditure on re-assessment operations.

Budget head.								
	,				ra tahuna manan as ara		Rs.	
•	nd settlement allow	_	zetted offi	cers	•••	•••	75,668	
A.—Offic	e establishment—					[
(1)	Office establishm	ent of assist	lant settler	ment officer	•••	•••	•••	
(2)	Office establishm		naib tahsi	ldars	•••	• • •	6,831	
(3)	Office Qanungos		•••	•••	•••	•••	19,922	
(4)	Menial establish	nent	No.	3	•••	•••	25,821	
			Total o	office establi	shment	•••	52,07 F	
B.—Pield	l establishment			40				
(5)	Settlement Talis	ildara	1/11	16.	•••	•••	22,959	
(6)	Settlement Naib	Tahsildars	11.7		•••	•••	5 2.605	
(7)	Field Qanungos	•••	सन्यमेव	जयन	•••	•••	70,879	
			Total	field es ta bli	shment	•••	1,46,503	
(8)	Temporary estab	lishment	•••		•••	•••	73,419	
			Total pa	y of establi	shment	•••	2,71,996	
C.—Allo	wances-							
(9)	Allowances to Pa	atwaris	•••	•••	•••		13,863	
(10)	Travelling allow	ance of Offi	cers	•••	•••	•••	6,739	
(3)	Ditto	of esta	blishment		•••		20,694	
Continge	nt expenditure exc	ept station	ery and lit	hography	•••		87,626	
Stationer	y	•••	•••	•••	***		8,569	
Lithogra	ph y	***	•••	***	•••	•••	331	
			Total cont	ingent expe	nditure		46,526	
				Cnam	Total		4,35,486	

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